COLLEGE OF EASTERN UTAH
BUNNEL-DMITRICH ATHLETIC CENTER
HVAC UPGRADE - REBID

451 EAST 400 NORTH / PRICE, UTAH 84501

AUGUST 15, 2007

REBID OF CONSTRUCTION DOCUMENTS

STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 STATE OFFICE BUILDING / SALT LAKE CITY, UTAH 84114 /
801.538.3018 / www.dfcm.state.ut.us

DFCM PROJECT NO. 06162610

COLLEGE OF
Eastern Utah

ARCHITECT:

SCOTT P. EVANS - ARCHITECT & ASSOCIATES P.C.

108 WEST CENTER STREET / BOUNTIFUL, UTAH 84010 /
801.298.1368 / www.spe-architect.com

STRUCTURAL ENGINEER:

BHB CONSULTING ENGINEERS

244 WEST 300 NORTH / SALT LAKE CITY, UTAH 84103
801.355.5656 / www.bhbengineers.com

MECHANICAL ENGINEER:

VAN BOERUM & FRANK ASSOCIATES

330 SOUTH 300 EAST / SALT LAKE CITY, UTAH 84111
801.530-3148 / www.vbfa.com

ELECTRICAL ENGINEER:

SPECTRUM ENGINEERS

WALKER BANK BUILDING 175 SOUTH MAIN STREET
300 SALT LAKE CITY, UTAH 84111 /
801.355.5151 / www.spectrum-engineers.com

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code		Guidelines	2006

A. Occupancy and Group: A 2.1 ORIGINAL

Change in Use: Yes _____ No X Mixed Occupancy: Yes X No _____

Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category: _____ Design Wind Speed: _____ mph

C. Type of Construction (circle one):

I A | I B | (II A) | II B | III A | III B | IV HT | V A | V B

ORIGINAL II - 1HR

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 1 South: 1 East: 1 West: 1

E. Mixed Occupancies: X Nonseparated Uses: _____

F: Sprinklers:

Required: YES Provided: YES Type of Sprinkler System: WET

IN LIEU OF 1-HR GYM HAS CEILING OPEN TO STRUCTURE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
AL.	ALUMINUM
ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT
&	AND
L	ANGLE
APPD.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT OR ARCHITECTURAL
AC	ARCHITECTURAL CONCRETE
AVG.	AVERAGE
@	AT
BM	BEAM
BLKG.	BLOCKING
BOT.	BOTTOM
BRKT.	BRACKET
BLDG.	BUILDING
CSMU	CALCIUM SILICATE MASONRY UNIT
C.B.	CATCH BASIN
CTR.	CENTER
CL	CENTERLINE
C TO C	CENTER TO CENTER
[	CHANNEL
C.O.	CLEANOUT
COL.	COLUMN
COMP.	COMPOSITION
C.M.U.	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CSK.	COUNTERSINK
C.J.	CONTROL JOINT
CU.	CUBIC
CU. FT.	CUBIC FOOT
CFM	CUBIC FEET PER MINUTE
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DEPT.	DEPARTMENT
DIAG.	DIAGONAL
Ø	DIAMETER
DIM.	DIMENSION
DR	DOOR
DBL.	DOUBLE
DWG.	DRAWING
ELEC.	ELECTRICAL
EWC	ELECTRIC WATER COOLER
EL.	ELEVATION
EQUIP.	EQUIPMENT
EJ /EXP. JT.	EXPANSION JOINT
EIFS	EXTERIOR INSULATION FINISH SYSTEM
F.S.	FAR SIDE
FT, or '	FEET OR FOOT
F.V.	FIELD VERIFY
F.F.	FINISH FLOOR
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
FRT	FIRE RETARDANT TREATED
FD	FLOOR DRAIN
FLUOR.	FLUORESCENT
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
GA.	GAGE OR GAUGE
GSU	GLAZED STRUCTURAL UNIT
GYP. BD.	GYPSUM BOARD
HDW.	HARDWARE
HGT.	HEIGHT
HSB	HIGH STRENGTH BOLT
HORIZ.	HORIZONTAL
"	INCH
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INTER.	INTERMEDIATE
K	KIP (1,000 LB.)
LAB.	LABORATORY
MFG.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NBFU	NATIONAL BOARD OF FIRE UNDERWRITERS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. or #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
d	PENNY
/	PER
PERP.	PERPENDICULAR
Ø	PHASE
LB. or #	POUND
PREFAB.	PREFABRICATED
P/L	PROPERTY LINE
R	RADIUS
REINF.	REINFORCING
REQ'D.	REQUIRED
REV.	REVISION
R&S	ROD & SHELF
RD	ROOF DRAIN
RM	ROOM
RD. or Ø	ROUND
SHT.	SHEET
SIM.	SIMILAR
SAB	SOUND ATTENUATION BLANKET
SPEC.	SPECIFICATION
SQ. or	SQUARE
SYM.	SYMMETRICAL
SSEIS	SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM
T.O.M.	TOP OF MASONRY
T.B.C.	TOP BACK OF CURB
T.L.	TOP OF LANDSCAPING
T.W.	TOP OF WALK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VWC.	VINYL WALL COVERING
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

MATERIAL DESIGNATIONS

EARTH

POROUS FILL

ASPHALT

CONCRETE

CONCRETE MASONRY UNITS

BRICK

CAST STONE

CERAMIC TILE

WOOD (FINISH)

WOOD (STUDS, NAILERS)

WOOD (BLOCKING)

PLYWOOD

BATT INSULATION

RIGID INSULATION

PLASTER

ACOUSTIC TILE

GYPSUM BOARD

GLASS

STEEL

PARTICLE BOARD

RIGID INSULATION

GRAPHIC SYMBOLS

D2 / AE-501 — DETAIL/WALL or SECTION NUMBER; SHEET NUMBER

102 — DOOR NUMBER

5 — WINDOW NUMBER

OFFICE / 100 — ROOM NAME; ROOM NUMBER

3 — REVISION NUMBER

XX / XXXXX — DETAIL, WALL or SECTION NUMBER; SHEET NUMBER

A — GRID REFERENCE

NORTH — REFERENCE NORTH (PLANS)

ELEVATION REFERENCE

3 — KEYED NOTE NUMBER

A / C XX XXXXX B / D — INTERIOR ELEVATION MARKER

1 — 1 — WALL TYPES

DRAWINGS REVISION

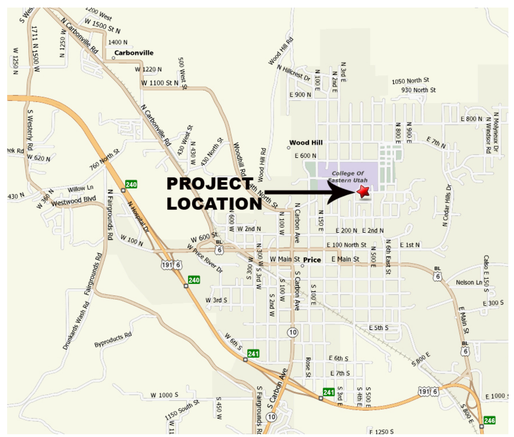
— REVISION NUMBER

DRAWING INDEX

SHT. #	DRAWING TITLE
	GENERAL:
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
	STRUCTURAL:
SJ001	GENERAL STRUCTURAL NOTES
SB101	FOOTING / ROOF PLAN
SB201	WALL ELEVATION
SB501	DETAILS AND SCHEDULES
SB502	DETAILS AND SCHEDULES
	ARCHITECTURAL:
AS-101	SITE PLAN
AS-102	ENLARGED SITE PLAN
AS-103	DIMENSION & JOINT PLAN
AE-201	ELEVATION
AE-301	WALL SECTION
AE-302	WALL SECTION
AE-303	WALL SECTION
AE-304	WALL SECTION
AE-501	DETAILS
AE-502	DETAILS
AE-503	DETAILS
AE-504	DETAILS
AE-505	DETAILS
	MECHANICAL:
M-001	LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS
MS-1	MECHANICAL SITE PLAN
MP-1.1	LEVEL #1 AREA #1 MECHANICAL DEMOLITION PLAN
MP-1.2	LEVEL #1 AREA #2 MECHANICAL DEMOLITION PLAN
MP-2.1	LEVEL #2 AREA #1 MECHANICAL DEMOLITION PLAN
MP-2.2	LEVEL #2 AREA #2 MECHANICAL DEMOLITION PLAN
MP-3.1	LEVEL #1 AREA #3 MECHANICAL PLAN
MP-4.1	LARGE SCALE MECHANICAL RM. DEMO/NEW PLAN
MP-5.1	MECHANICAL BUILDING SECTIONS
MP-5.2	MECHANICAL BUILDING SECTIONS
MP-6.1	MECHANICAL DETAILS
MP-6.2	MECHANICAL DETAILS
MP-7.1	SCHEDULES
	ELECTRICAL:
EE-001	SYMBOL LEGEND SHEET INDEX & SCHEDULES
EE-002	ONE-LINE DIAGRAMS
ED-101	LEVEL #1 AREA #1 DEMOLITION PLAN
EP-101	LEVEL #1 AREA #1 POWER PLAN
EP-102	LEVEL #1 AREA #2 POWER PLAN
EP-103	LEVEL #1 AREA #3 POWER PLAN

A3 VICINITY MAP
SCALE: NONE

NORTH



A4 LOCATION MAP
SCALE: NONE

NORTH

ARCHITECT'S INFORMATION:

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PROFESSIONAL STAMP:

CONSULTANTS:

STRUCTURAL ENGINEER
BHB ENGINEERING

MECHANICAL ENGINEER
VBFA CONSULTING

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

SPECTRUM

PROJECT NAME:

COLLEGE OF EASTERN UTAH
BUNNEL-DMITRICH
ATHLETIC CENTER
HVAC UPGRADE - REBID

451 EAST 400 NORTH
PRICE, UTAH 84501

REVISIONS:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
01	5/21/07	CONSTRUCTION DOCUMENTS
02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

OWNER PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:

GENERAL INFORMATION

SHEET NUMBER:

GI-002

Last Plotted: 8/15/2007 9:04:30 AM

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code — International Building Code 2003
2. Roof Snow Load
   a. Ground Snow Load — P_g = 43 psf
   b. Snow Importance Factor — I_s = 1.1
   c. Snow Exposure Coefficient — C_e = 1.0
   d. Thermal Exposure Coefficient — C_t = 1.0
   e. Roof Snow Load — $P_f = 0.7 * C_e * C_t * I_s * P_g$ = 33 psf plus Snow Drift
3. Seismic Loads
   a. Short Period Mapped Spectral Acceleration — S_S = 0.467
   b. Soil Site Class — D
   c. Short Period Site Coefficient — F_a = 1.0
   d. 5% Damped Design Spectral Response Acceleration — $S_{DS} = 2/3 * F_a * S_S$
   e. Seismic Importance Factor — I_e = 1.25
   f. Seismic Response Coefficient — $C_s = S_{DS} * I_e / R$
   g. W — Dead Loads of Structure
   h. Building Seismic Design Category — D
   i. System Overstrength Factor — 2.5
   j. Deflection Amplification Factor — 3.5
   k. Out of Plane Shear — V= = 0.22 W (Strength Design)
4. Wind Loads
   a. Wind Velocity (3 Second Gust) — 90 mph
   b. Exposure Type — C
   c. Wind Importance Factor — 1.15

FOUNDATION

1. Soils Report by Rollins, Brown And Gunnell, INC., Dated June 1983. See Memo dated April 12, 2007
2. Soil Bearing Pressure: 1500 psf, on Compacted Fill.
3. Frost Protection: 30 inches minimum.
4. Lateral Soil Pressure Fluid Equivalent Density.
   a. Active ..... 35 pcf (retaining walls)
   b. At Rest ..... 55 pcf (rigid foundation walls)
   c. Passive ..... 300 pcf
5. Coefficient of Friction 0.4

EARTHWORK

1. Memo by RB&G dated April 12, 2007 states northeasterly part of the building can have footings placed on native soil if non-frost susceptible material be located within the upper 70% of the frost depth or 21 inches.
2. It is recommended that 15 inches of non-frost susceptible material be located beneath slabs and mechanical pads.
3. Consult the project specifications and soils report and memo from RB&G for earthwork requirements.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Headed Stud Anchors (HSA) — ASTM A108
   e. Anchor Rods Typical, uno — ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
   f. Admixtures:
      i. Air-entraining admixtures comply with ASTM C 260 (when used).
      ii Calcium chloride shall not be added to the concrete mix.
   g. Type I/II cement complying with ASTM C-150 shall be used for all concrete.
   h. The water/cement ratios shall meet the requirements of ACI 318.
   i. Provide air entraining as recommended by ACI 318.
   j. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
   a. Footings ..... 3,000 psi
   b. Walls ..... 3,000 psi
   c. All Site Concrete ..... 4,000 psi
3. Only one grade or type of concrete shall be poured on the site at any given time.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
5. Reinforcement shall have the following concrete cover:
   Cast-in-place Concrete: ..... Clear Cover
   a. Cast against and permanently exposed to earth ..... 3"
   b. Formed concrete exposed to earth or weather:
      #6 thru #18 bars ..... 2"
      #5 and smaller bars ..... 1-1/2"
   c. Concrete not exposed to weather or in contact with ground:
      Slabs, Walls, Joists: #11 bars and smaller ..... 3/4"
      Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals ..... 1-1/2"
6. Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
7. Detailing:.
   a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule on sheet 6/SB501" Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
   d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.

EPOXY

1. Epoxy shall be "HIT HY 150 MAX or HIT RE 500 by Hilti Corporation, "Anchor-it" by Adhesive Technology Corporation, "Epcon Injection System" by Ramset/Redhead, "Power-Fast" by Rawl or approved equal.
2. All drilled holes for bars or anchors rods 1" diameter and smaller shall be 1/8 inch larger than the bar of anchor rod being installed. For bars or anchor rods greater than 1" diameter shall be smaller 1/4 inch larger than the bar or anchor rod being installed.
3. After drilling the proper size hole, clean the walls and bottom of the drilled hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
4. Follow all manufacturer's recommendations for epoxy installation.

STRUCTURAL STEEL

1. Material:
   a. Other shapes & Plates — ASTM A36
   b. Steel Tubes — ASTM A500 Grade B (46KSI)
      Gravity Columns — ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
   c. Bolted Connections: — ASTM A325
2. Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
   a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
   b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1,
   c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
   d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
   e. AISC "Seismic Provision for Structural Steel Buildings"
3. Welding
   a. All welding and cutting shall be performed by AWS certified welders.
   b. Use E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.
   c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
   d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors(HSAs).
   e. Do not weld anchor bolts, including "tack" welds.
   f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 thru 1709 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with out special inspection. Items requiring special inspection and quality assurance are:

1. Concrete reinforcing steel placement (IBC Section 1704.4)
   a. All Reinforcing shall be inspected prior to concrete placement.
2. Structural welding,
   a. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
   b. Continuous special inspection of complete and partial penetration welds.
3. Epoxy Anchors (IBC Section 1704.13)
   a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

LEGEND OF MARKS AND ABREVIATIONS

AB	ANCHOR BOLT(S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CC.	CENTER-TO CENTER
C.J.	CONST/CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CP-x	CONCRETE PIER
CRW-x	CONCRETE RETAINING WALL
CTR	CENTER
CW-x	CONCRETE WALL
DB	DECK BEARING
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
EQ	EQUAL
E.W.	EACH WAY
EXST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FC-x	CONTINUOUS FOOTING MARK
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.F.	FINISHED FLOOR
FR-x	RECTANGULAR FOOTING MARK
FS-x	SQUARE FOOTING MARK
FT	FOOT
FTG	FOOTING
FTS-x	THICKEN SLAB MARK
GA	GAUGE
GALV	GALVANIZED
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HT	HEIGHT
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
IBC	INTERNATIONAL BUILDING CODE
I.F.	INSIDE FACE
IN.	INCH
INT	INTERIOR
JT	JOINT
JST	JOIST
k	KIP(S) = 1000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
LBS	POUNDS
LF	LINEAL FOOT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MC-x	MASONRY COLUMN MARK
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MW-x	MASONRY WALL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
REINF	REINFORCING
REQD	REQUIRED
R.D.	ROOF DRAIN
RTU	ROOF TOP UNITS
SBP-x	STEEL BASE PLATE MARK
SC-x	STEEL COLUMN MARK
SCP-x	STEEL CAP PLATE MARK
SHT	SHEET
SI	SPECIAL INSPECTION
SIM	SIMILAR
SMU	SUSPENDED MECHANICAL UNITS
SOG	SLAB-ON-GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
STS	SELF TAPPING SCREWS
T&B	TOP AND BOTTOM
TEMP	TEMPERATURE
THDS	THREADS
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

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PROJECT NAME:

COLLEGE OF EASTERN UTAH
BUNNEL-DMITRICH
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HVAC UPGRADE - REBID
451 EAST 400 NORTH
PRICE, UTAH 84501

REVISIONS:

NO.	DATE	DESCRIPTION

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02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

OWNER PROJECT #:	06162810
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:
GENERAL STRUCTURAL NOTES

SHEET NUMBER:
SJ001

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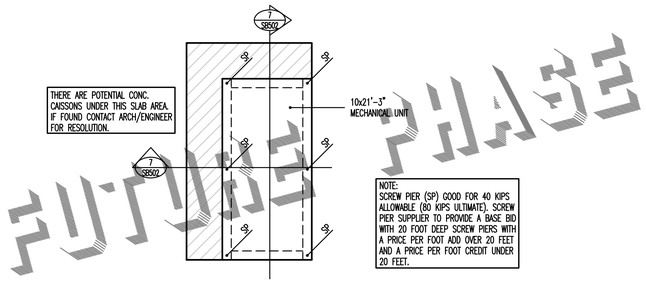
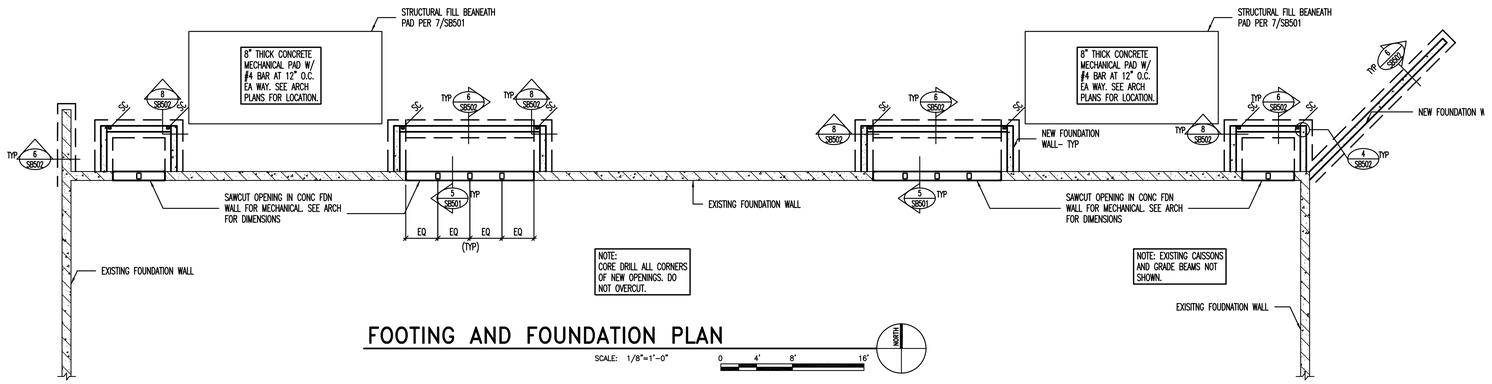


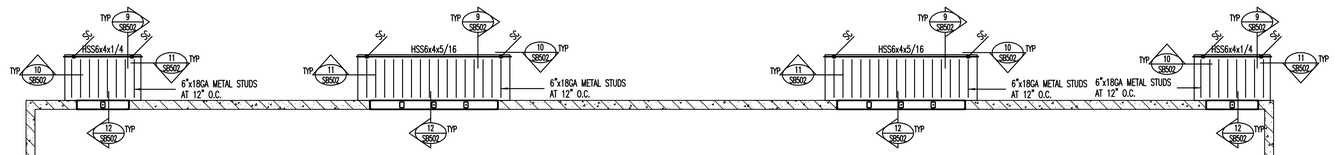
AREA '2' MECHANICAL PAD

SCALE: 1/8"=1'-0" 0 4' 8' 16' NORTH



FOOTING AND FOUNDATION PLAN

SCALE: 1/8"=1'-0" 0 4' 8' 16' NORTH



ROOF FRAMING PLAN

SCALE: 1/8"=1'-0" 0 4' 8' 16' NORTH

MARKS AND SYMBOLS LEGEND

	SECTION MARK / SHEET NUMBER
SC	INDICATES STEEL COLUMN. SEE DETAILS 8,10/SB502.
SP	INDICATES SCREW PIER.

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. SEE DETAILS 1/SB502 AND 2/SB502 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
5. SEE DETAIL 5/SB502 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
6. SEE DETAIL 3/SB502 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
7. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
8. SEE DETAIL 7/SB501 FOR REQUIRED FILL BENEATH FOOTINGS AND MECHANICAL PADS.

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
3. SEE DETAIL 4/SB501 FOR EPOXY DOWEL EMBED SCHEDULE.

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02	06/13/07	CONSTRUCTION DOCUMENTS - REBID

OWNER PROJECT #:	06162810
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:
WALL ELEVATION

SHEET NUMBER:
SB101

Last Plotted: 5/18/2007 8:10:27 AM
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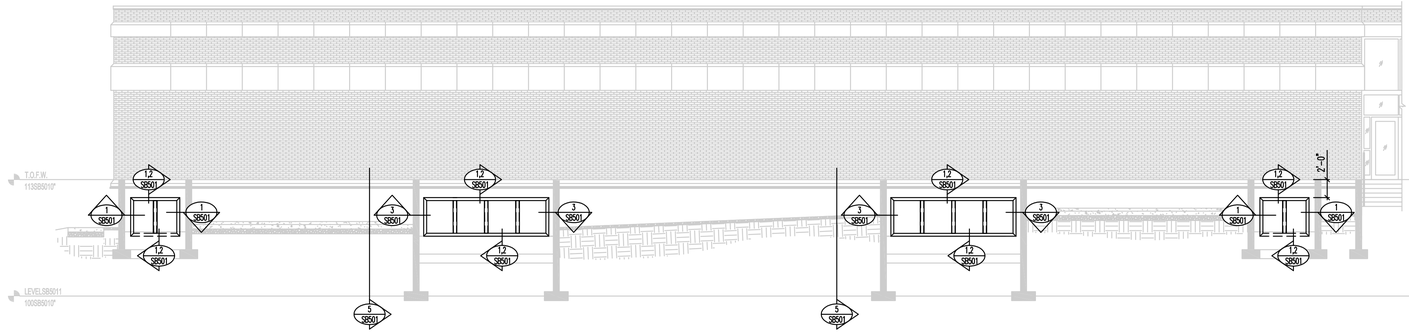

NOTE:
CORE DRILL ALL CORNERS OF NEW OPENINGS. DO NOT OVERCUT.

SITE AREA 1 ELEVATION

SCALE: 1/8"=1'-0"

0 4' 8' 16'

NORTH

MARKS AND SYMBOLS LEGEND

SECTION MARK
SHEET NUMBER

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SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:

WALL ELEVATION

SHEET NUMBER:

SB201

Last Plotted: 9/18/2007 8:09:37 AM

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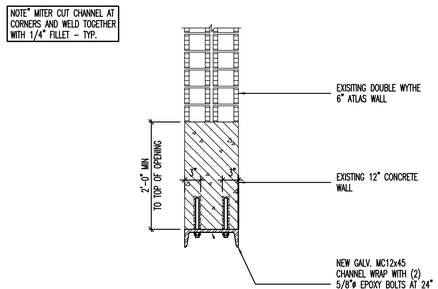
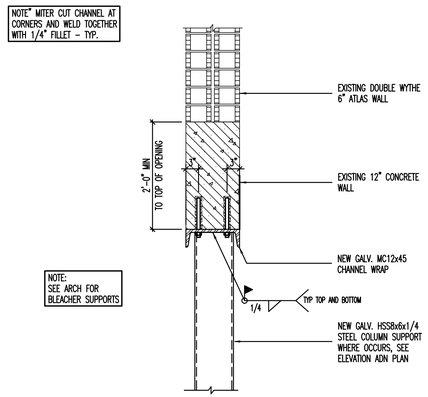


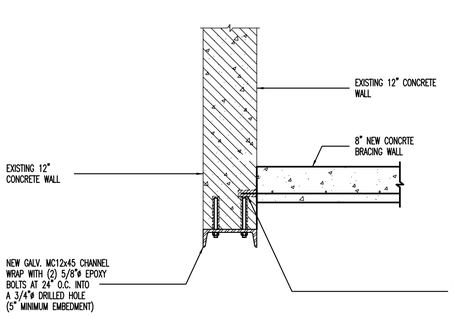
1 CHANNEL WRAP DETAIL

NO SCALE



2 CHANNEL WRAP AT COLUMN SUPPORT

NO SCALE

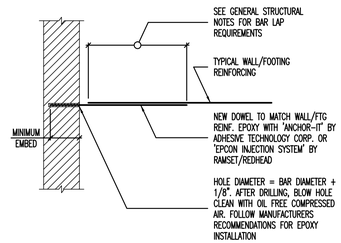


3 CHANNEL WRAP DETAIL AT LATERAL SUPPORT

NO SCALE

EPOXY DOWEL EMBED SCHEDULE

DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	5"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



4 EPOXY DOWEL EMBED SCHEDULE

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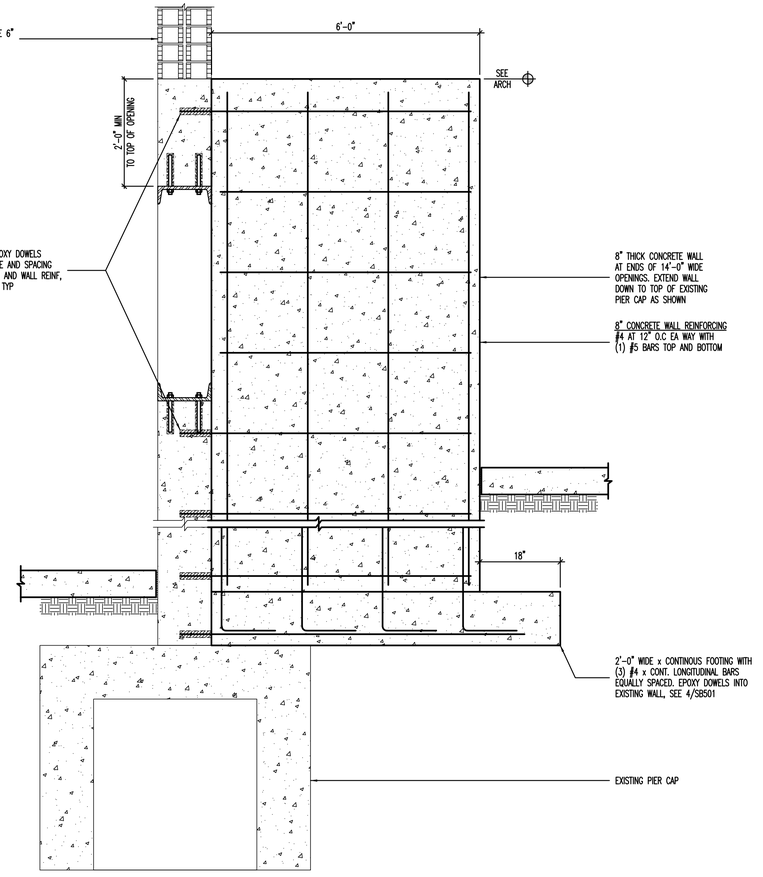


5 BRACING WALL DETAIL

NO SCALE

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

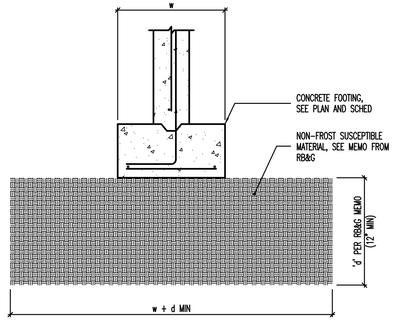
BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

CONCRETE REINFORCING BAR LAP SPLICE NOTES:

1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. SPLICES FOR BUNDLED BARS:
   a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
   d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

6 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

NO SCALE



7 ENGINEERED FILL DETAIL

NO SCALE

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SB501

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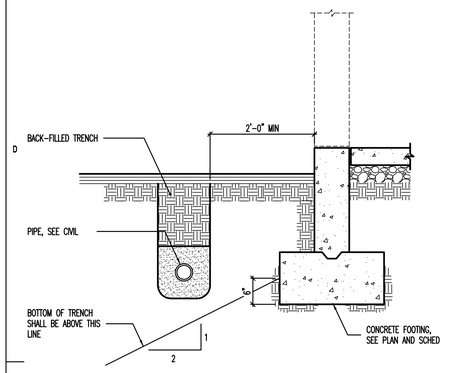
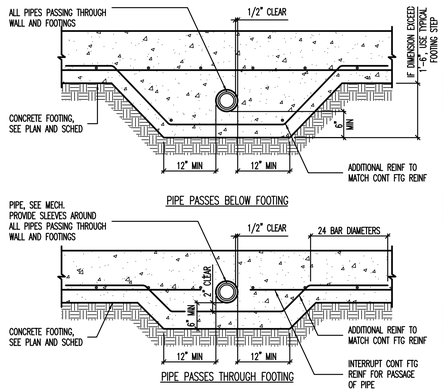


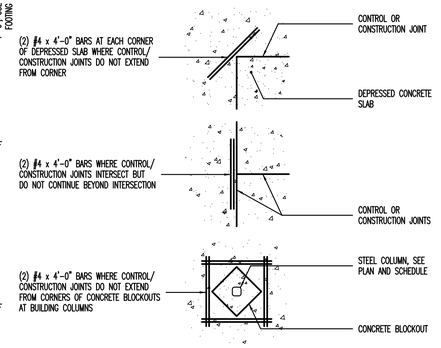
1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING

NO SCALE



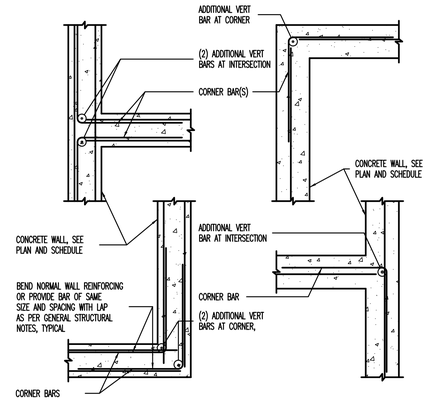
2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING

NO SCALE



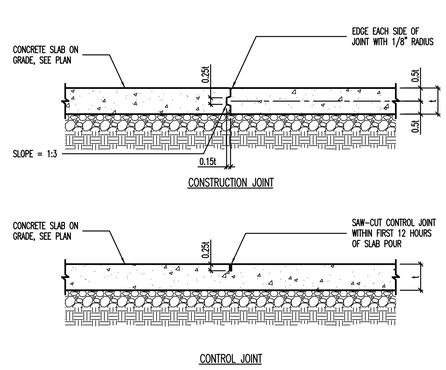
3 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]

NO SCALE



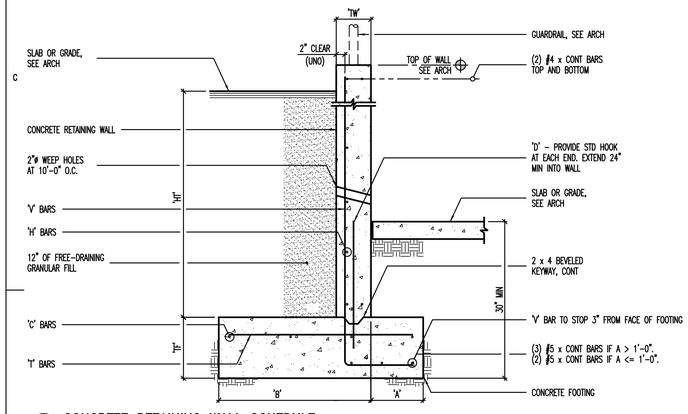
4 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW]

NO SCALE



5 TYPICAL SLAB ON GRADE JOINT DETAILS

NO SCALE



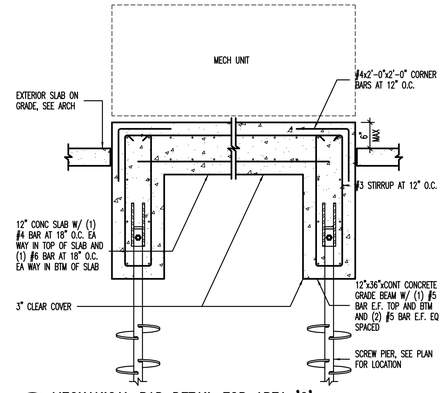
6 CONCRETE RETAINING WALL SCHEDULE

NO SCALE

CONCRETE RETAINING WALL SCHEDULE

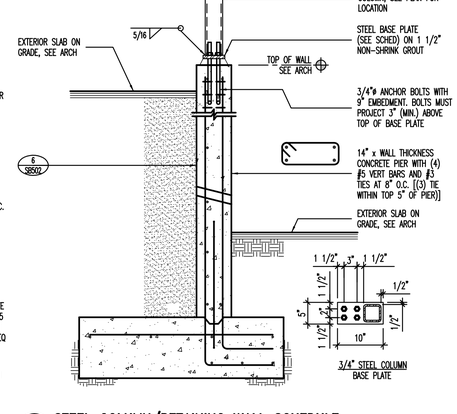
HT	A	B	TW	TF	V		H		T		C		D		COMMENTS
					SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	
9'-6"	2'-0"	6'-0"	10"	14"	#6	17"	#5	15"	#6	17"	#5	12"	#4	18"	.
7'-6"	1'-6"	4'-0"	8"	12"	#5	15"	#4	12"	#5	15"	#5	12"	–	–	
5'-6"	1'-0"	2'-0"	8"	12"	#5	18"	#4	12"	#4	18"	#5	12"	–	–	CENTER REINF IN WALL
4'-0"	0'-8"	1'-4"	8"	12"	#4	18"	#4	12"	#4	18"	#5	12"	–	–	CENTER REINF IN WALL

CONCRETE RETAINING WALL NOTES:
1. 'V' BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL.
2. WHERE 'HT' IS GREATER THAN 9'-0", THEN ONE HALF OF THE 'V' BARS MAY BE DISCONTINUED AT MID-HEIGHT OF WALL.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



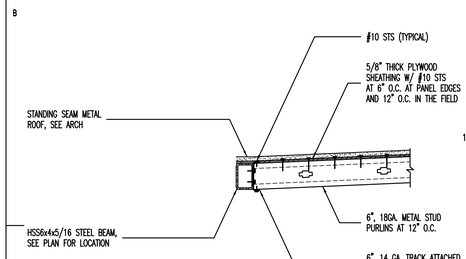
7 MECHANICAL PAD DETAIL FOR AREA '2' FUTURE PHASE

NO SCALE



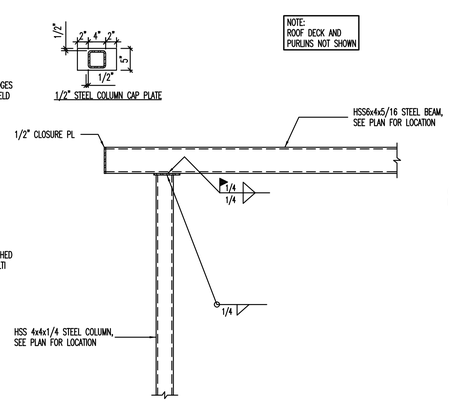
8 STEEL COLUMN/RETAINING WALL SCHEDULE

NO SCALE



9 CANOPY DETAIL

NO SCALE



10 CANOPY DETAIL

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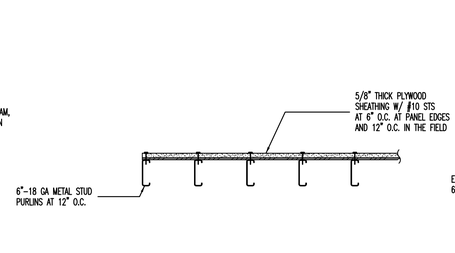

11 CANOPY DETAIL

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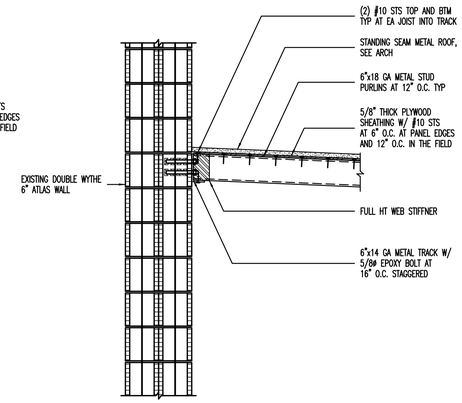

12 CANOPY DETAIL

NO SCALE

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DESIGNED BY:	RPL

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DETAILS AND SCHEDULES

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SB502

"Engineering Results"
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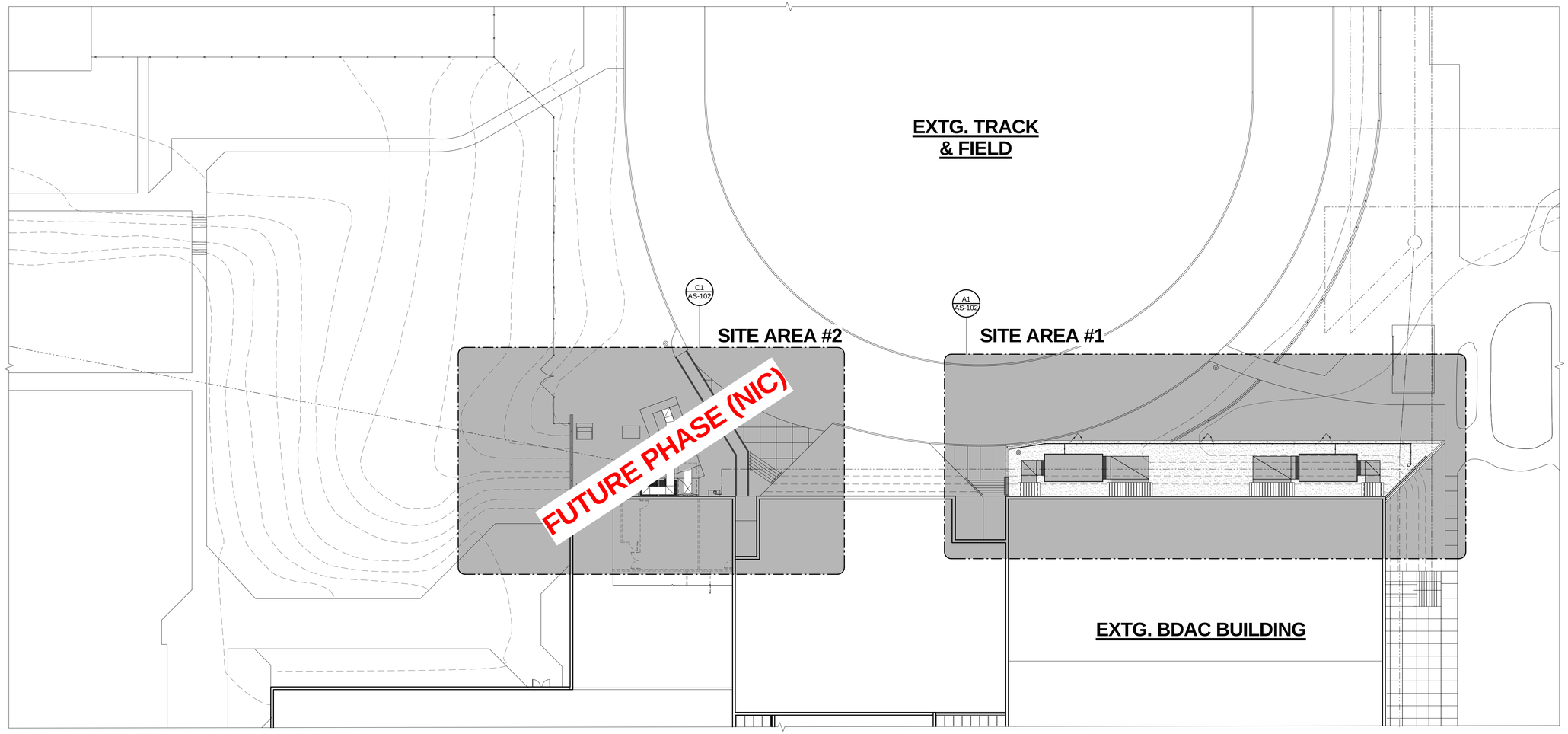
Last Plotted: 5/18/2007 8:10:27 AM
Q:\2006\06188\Struct\06188_SB502.dwg, 8/15/2007 11:33:39 AM, jbyrn



A1 SITE PLAN
1" = 20'-0"

Last Plotted: 8/15/2007 9:04:13 AM

ARCHITECT'S INFORMATION:

SCOTT P. EVANS
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ELECTRICAL ENGINEER
SPECTRUM ENGINEERS

PROJECT NAME:

COLLEGE OF EASTERN UTAH
BUNNEL-DMITRICH
ATHLETIC CENTER
HVAC UPGRADE - REBID
451 EAST 400 NORTH
PRICE, UTAH 84501

REVISIONS:

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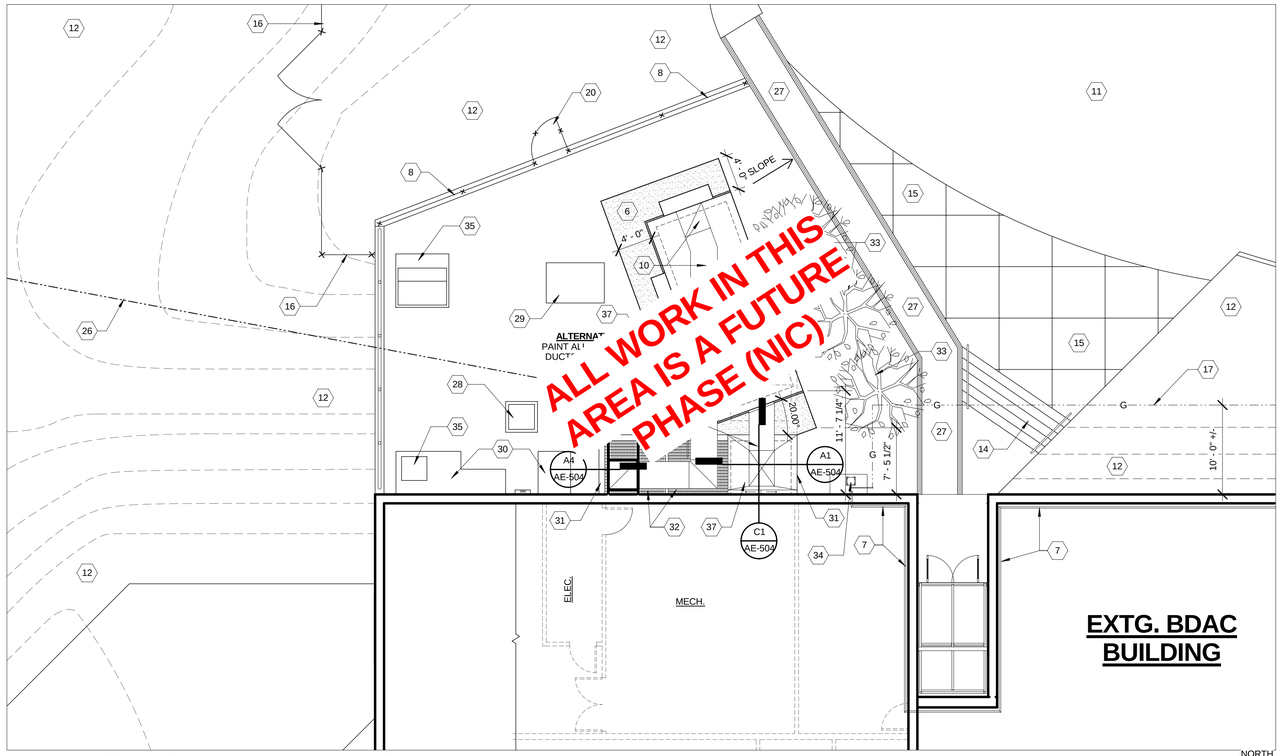
02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

OWNER PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

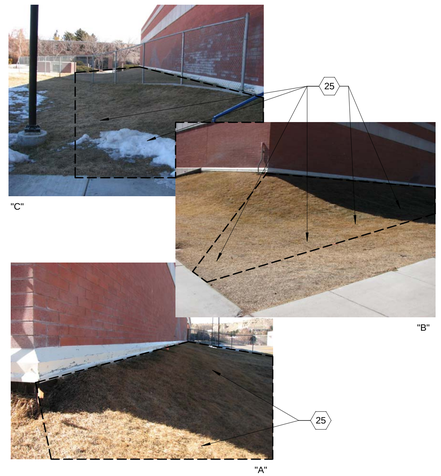
SHEET TITLE:
SITE PLAN

SHEET NUMBER:
AS-101



C1 ENLARGED SITE PLAN AREA #2

1/8" = 1'-0"



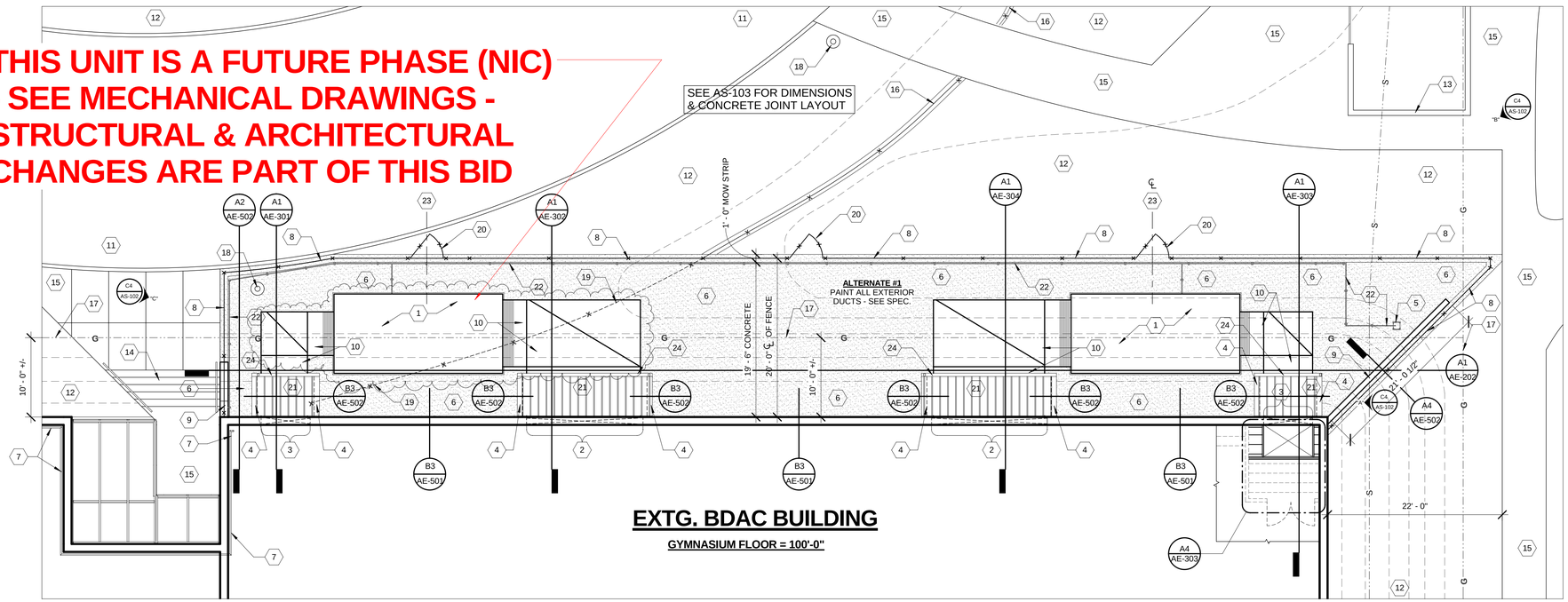
C4 PHOTOS

1 1/2" = 1'-0"

KEYED NOTES

1. NEW MECHANICAL UNIT ON CONCRETE HOUSE KEEPER PAD - SEE MECHANICAL & STRUCTURAL DRAWINGS & DETAILS INDICATED.
2. SAWCUT NEW 4'-8"(H) X 14'-8"(W) OPENING IN CONCRETE FOUNDATION WALL - SEE ELEVATION & STRUCTURAL DRAWINGS.
3. SAWCUT NEW 4'-8"(H) X 6'-2"(W) OPENING IN CONCRETE FOUNDATION WALL - SEE ELEVATION & STRUCTURAL DRAWINGS.
4. NEW CONCRETE FOOTING & FOUNDATION WALL BELOW CANOPY ROOF - SEE ELEVATION & STRUCTURAL DRAWINGS.
5. NEW GAS METER ON CONCRETE PAD - SEE MECHANICAL DRAWINGS.
6. NEW 4" CONCRETE SLAB ON 4" DRAINAGE FILL - REFER TO SECTIONS & REFER TO SHEET AS-103 FOR CONCRETE SLAB ELEVATIONS.
7. NEW GAS LINE REFER TO MECHANICAL DRAWINGS - REFER TO DETAILS A3/AE-501 & A4/AE-501.
8. NEW CHAIN LINK FENCE MATCH HEIGHT OF EXTG. - PROVIDE 12" WIDE CONCRETE MOW STRIP - REFER TO DETAIL A1/AE-501.
9. NEW CONCRETE RETAINING WALL - REFER TO DETAIL & SEE STRUCTURAL DRAWINGS.
10. NEW MECHANICAL DUCTS - REFER TO MECHANICAL DRAWINGS - REFER FOR EXACT LOCATION & SIZE ALSO REFER TO DETAIL D3/AE-502.
11. EXTG. TRACK TO REMAIN PROTECT FROM DAMAGE.
12. EXTG. LANDSCAPING TO REMAIN PROTECT & RESTORE AS REQ'D..
13. EXTG. STRUCTURE TO REMAIN.
14. EXTG. STAIRS TO REMAIN.
15. EXTG. CONCRETE SIDEWALK TO REMAIN.
16. EXTG. CHAIN LINK FENCE & CONCRETE MOW STRIP TO REMAIN.
17. APPROXIMATE LOCATION EXTG. UNDERGROUND GAS LINE TO BE REMOVED - REFER TO MECHANICAL DRAWINGS - CONTRACTOR TO F.V. LOCATION.
18. EXTG. EXTERIOR LIGHT POLE TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
19. EXTG. CHAIN LINK FENCE SHOWN DASHED & CONCRETE MOW STRIP TO BE REMOVED.
20. NEW 4' WIDE CHAIN LINK FENCE GATE.
21. NEW STANDING SEAM METAL CANOPY ROOF - REFER TO ELEVATION & SECTIONS FOR DETAILS.
22. NEW GAS LINE ON TREATED 2X'S - REFER TO MECHANICALS DRAWINGS FOR EXACT PLACEMENT - HOLD TIGHT TO FENCE.
23. CENTER NEW CHAIN LINK GATE WITH CENTER OF COOLING COIL IN THE MECHANICAL UNIT.
24. MATCHING PREFINISHED RAIN GUTTER / DOWNSPOUT SYSTEM - INSTALL TO DRAIN TO DOWNSPOUT AS INDICATED.
25. EXCAVATE TO NEW GRADE AS REQUIRED TO COMPLETE NEW WORK - SEE AE-103 FOR FINAL GRADES.
26. APPROXIMATE LOCATION EXTG. STEAM & CONDENSATE LINE TO REMAIN.
27. EXTG. RAMP TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
28. EXTG. ELECTRICAL MAN HOLE.
29. EXTG. ELECTRICAL TRANSFORMER.
30. EXTG. CONCRETE PAD TO REMAIN.
31. EXTG. CONCRETE MECHANICAL WELL TO REMAIN.
32. EXTG. STEEL GRATE OVER WELL TO BE MODIFIED PER DETAILS INDICATED
33. EXTG. TREES TO REMAIN.
34. EXTG. GAS METER TO BE REMOVED - REFER TO MECHANICAL DRAWINGS.
35. EXTG. ELECTRICAL UNITS TO REMAIN.
36. REMOVE EXTG. MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
37. NEW SHEET METAL FLASHING AROUND NEW DUCT - WELD CORNERS OF SHEET METAL AS REQUIRED - REFER TO DETAIL INDICATED.
38. NEW MECHANICAL UNIT ON SPECIAL STRUCTURAL CONCRETE HOUSE KEEPER PAD - SEE STRUCTURAL DRAWINGS - SEE MECHANICAL DRAWINGS.
39. DEMOLISH EXTG. CONCRETE PAD AS REQUIRED.

THIS UNIT IS A FUTURE PHASE (NIC) - SEE MECHANICAL DRAWINGS - STRUCTURAL & ARCHITECTURAL CHANGES ARE PART OF THIS BID



A1 ENLARGED SITE PLAN AREA #1

1/8" = 1'-0"

GENERAL NOTES

1. ***ALL GAS LINE UTILITY RELOCATION WORK MUST BE COMPLETED BEFORE ANY OTHER WORK IS BEGUN. SHUT DOWN OF EXISTING GAS LINE IS TO BE KEPT TO A MINIMUM AMOUNT OF TIME. A 48 HOUR NOTICE MUST BE GIVEN TO OWNER PRIOR TO DISCONNECTING THE UTILITY.***
2. REMOVE EXTG. IRRIGATION SYSTEM IN AREA OF CONSTRUCTION.
3. ALL DIMENSIONS NEED TO BE FIELD VERIFIED.
4. ALL NEW WOOD THAT COMES IN CONTACT WITH CONCRETE OF MASONRY SHALL BE PRESERVATIVE TREATED.
5. PROTECT ALL EXISTING IMPROVEMENTS INCLUDING LANDSCAPING, SPRINKLING SYSTEMS, SIDEWALKS, PARKING AREAS, SURROUNDING ROOFS ETC. - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION (TO THE SATISFACTION OF THE OWNER AND ARCHITECT).
6. SALVAGE SPRINKLERS HEADS TO OWNER.
7. STOCK PILE 6" TOP SOIL FOR OWNER TO PICK UP & USE.
8. ALL EXCESS EXCAVATED EARTH CAN BE DISPOSED OF ON CEU CAMPUS - HAUL TO LOCATION AS DIRECTED BY OWNER.

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SPECTRUM ENGINEERS

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PRICE, UTAH 84501

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OWNER PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NUMBER:

AS-102

Last Plotted: 8/15/2007 9:04:23 AM

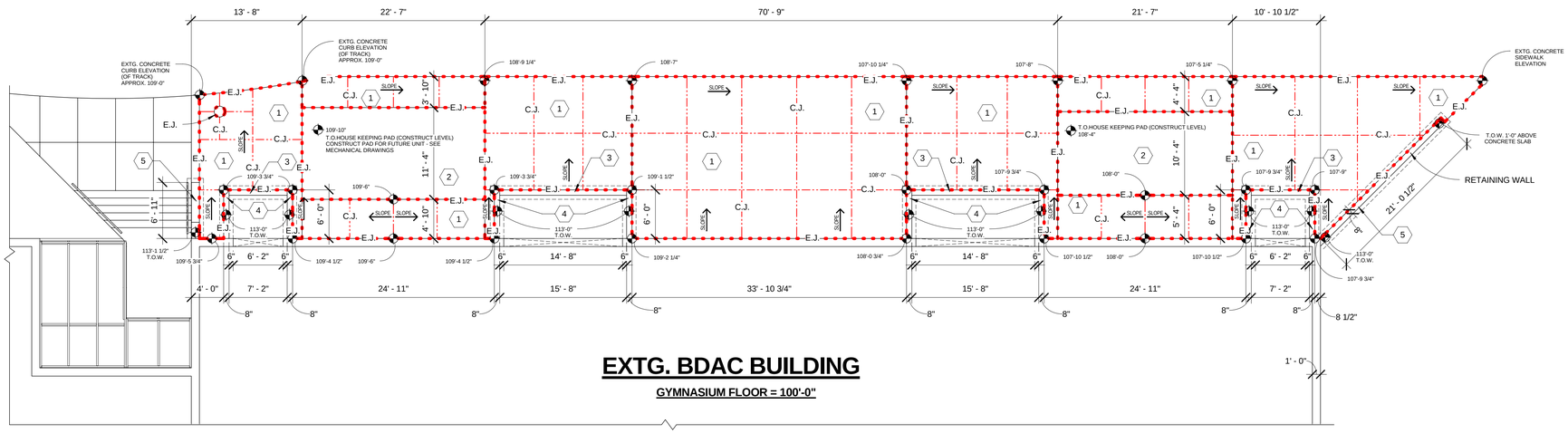
KEYED NOTES

1. 4" CONCRETE SLAB (SLOPE AWAY FROM BUILDING AS SHOWN - SEE PLAN FOR EXACT ELEVATIONS) ON 4" DRAINAGE FILL - LAYOUT JOINTS AS SHOWN.
2. 8" REINFORCING CONCRETE PAD FOR MECHANICAL UNIT (CONSTRUCT PAD LEVEL) ON 12" STRUCTURAL FILL - SEE STRUCTURAL DRAWINGS.
3. NEW CONCRETE GRADE BEAM WITH FOOTING - SEE STRUCTURAL DRAWINGS.
4. NEW CONCRETE BRACE WALLS WITH FOOTINGS - SEE STRUCTURAL DRAWINGS.
5. NEW CONCRETE RETAINING WALL - SEE STRUCTURAL DRAWINGS.

SYMBOL KEY

C.J. — CONTROL JOINT TO BE SAWCUT OR TOOLED JOINTS,

E.J. — EXPANSION JOINT.



EXTG. BDAC BUILDING

GYMNASIUM FLOOR = 100'-0"

A1 DIMENSION & JOINT PLAN

1/8" = 1'-0"

NORTH

Last Plotted: 8/15/2007 9:04:27 AM

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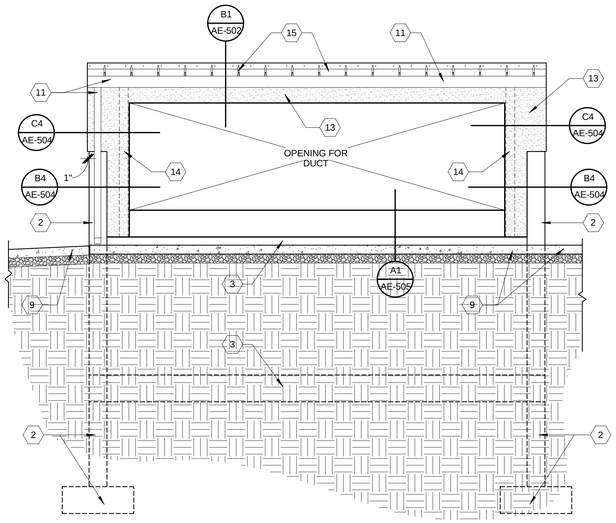
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:

DIMENSION & JOINT PLAN

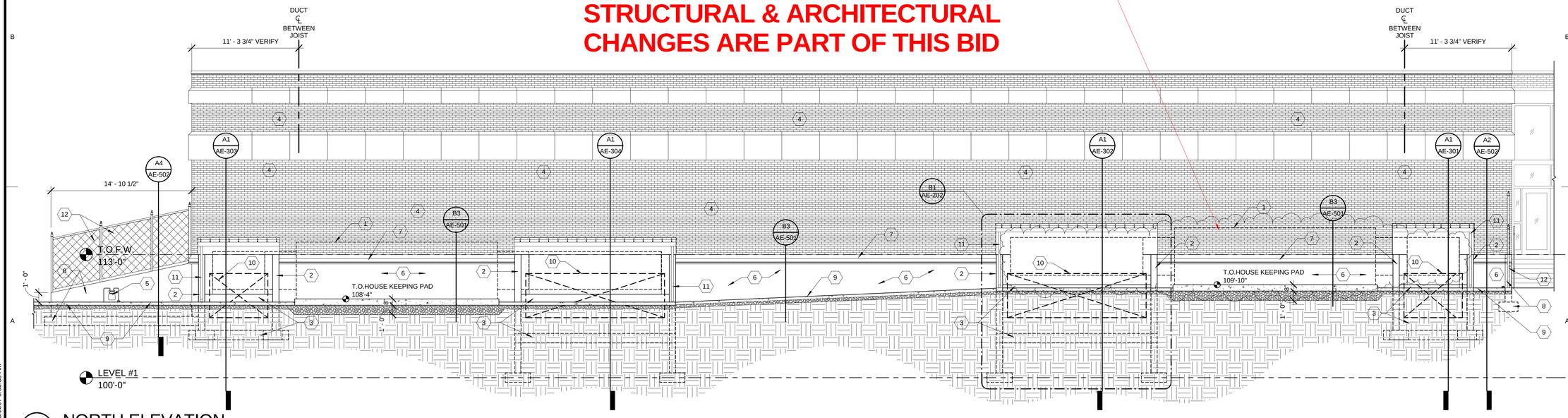
SHEET NUMBER:

AS-103



B1 TYP. ENLARGED ELEVATION
3/8" = 1'-0"

THIS UNIT IS A FUTURE PHASE (NIC) - SEE MECHANICAL DRAWINGS - STRUCTURAL & ARCHITECTURAL CHANGES ARE PART OF THIS BID



A1 NORTH ELEVATION
3/16" = 1'-0"

KEYED NOTES

1. NEW MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
2. NEW CONCRETE WALL WITH FOOTING - SEE STRUCTURAL DRAWINGS.
3. NEW CONCRETE GRADE BEAM WITH FOOTING - SEE STRUCTURAL DRAWINGS - PROVIDE COMPACTED FILL BENEATH FOOTING.
4. EXTG. MASONRY WALL TO REMAIN PROTECT FROM DAMAGE DURING CONSTRUCTION.
5. NEW GAS METER ON 4'-0" X 4'-0" CONCRETE PAD - SEE MECHANICAL DRAWINGS.
6. NEWLY EXPOSED CONCRETE FOUNDATION WALL - WATER PROOF & INSTALL EIFS PER DETAIL B3/AE-501.
7. EXTG. FOUNDATION WALL METAL CAP TO REMAIN PAINT - REFER TO DETAIL B3/AE-501.
8. NEW CONCRETE RETAINING WALL - REFER TO DETAIL & SEE STRUCTURAL DRAWINGS.
9. NEW 4" CONCRETE SLAB OVER 4" GRAVEL BASE.
10. THICK DASHED LINE REPRESENTS NEW OPENING IN CONCRETE FOUNDATION WALL BEYOND - SEE STRUCTURAL DRAWINGS.
11. PREFINISHED RAIN GUTTER / DOWNSPOUT SYSTEM - INSTALL IN LOCATION AS INDICATED.
12. NEW CHAIN LINK FENCE MATCH EXTG. WITH 12" WIDE CONCRETE MOW STRIP - REFER TO DETAIL A1/AE-501.
13. NEW 1" EIFS SYSTEM - REFER TO DETAILS & SPEC.
14. NEW STEEL COLUMN - SEE STRUCTURAL DRAWINGS
15. 1-1/2" x 12" STANDING SEAM METAL ROOFING & SELF-ADHEARING POLYSTYRENE FACED UNDERLAYMENT OVER FASCIA ONTO SOFFIT BEHIND DRIP EDGE & GUTTER - SEE SPEC. & DETAILS INDICATED.

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OWNER PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:

ELEVATION

SHEET NUMBER:

AE-202

Last Plotted: 8/15/2007 9:03:33 AM

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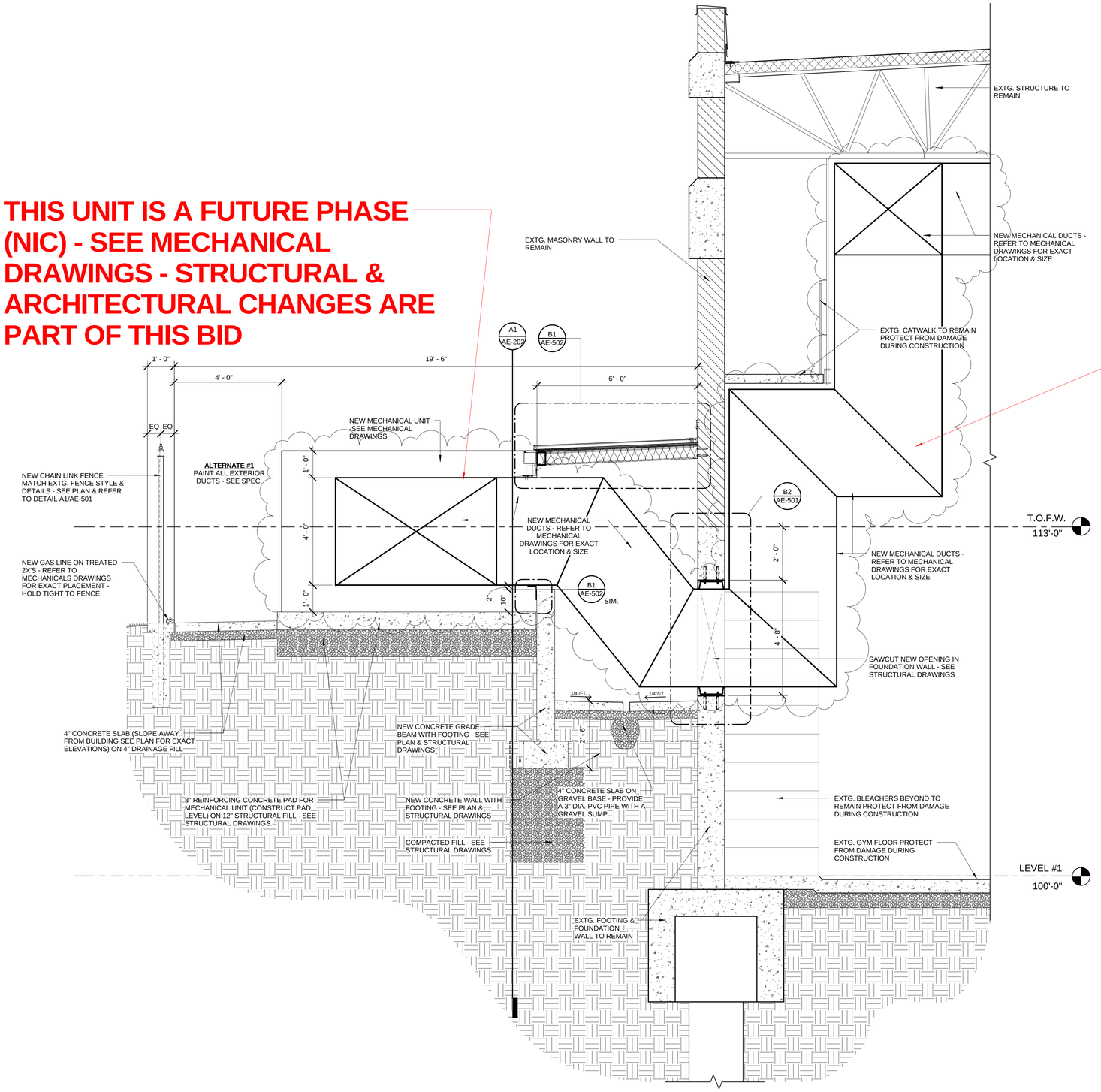

DUCTWORK IS A FUTURE PHASE (NIC) - SEE MECHANICAL DRAWINGS - STRUCTURAL & ARCHITECTURAL CHANGES ARE PART OF THIS BID

A1 WALL SECTION WEST SUPPLY
1/2" = 1'-0"

Last Plotted: 8/15/2007 9:03:35 AM

ARCHITECT'S INFORMATION:

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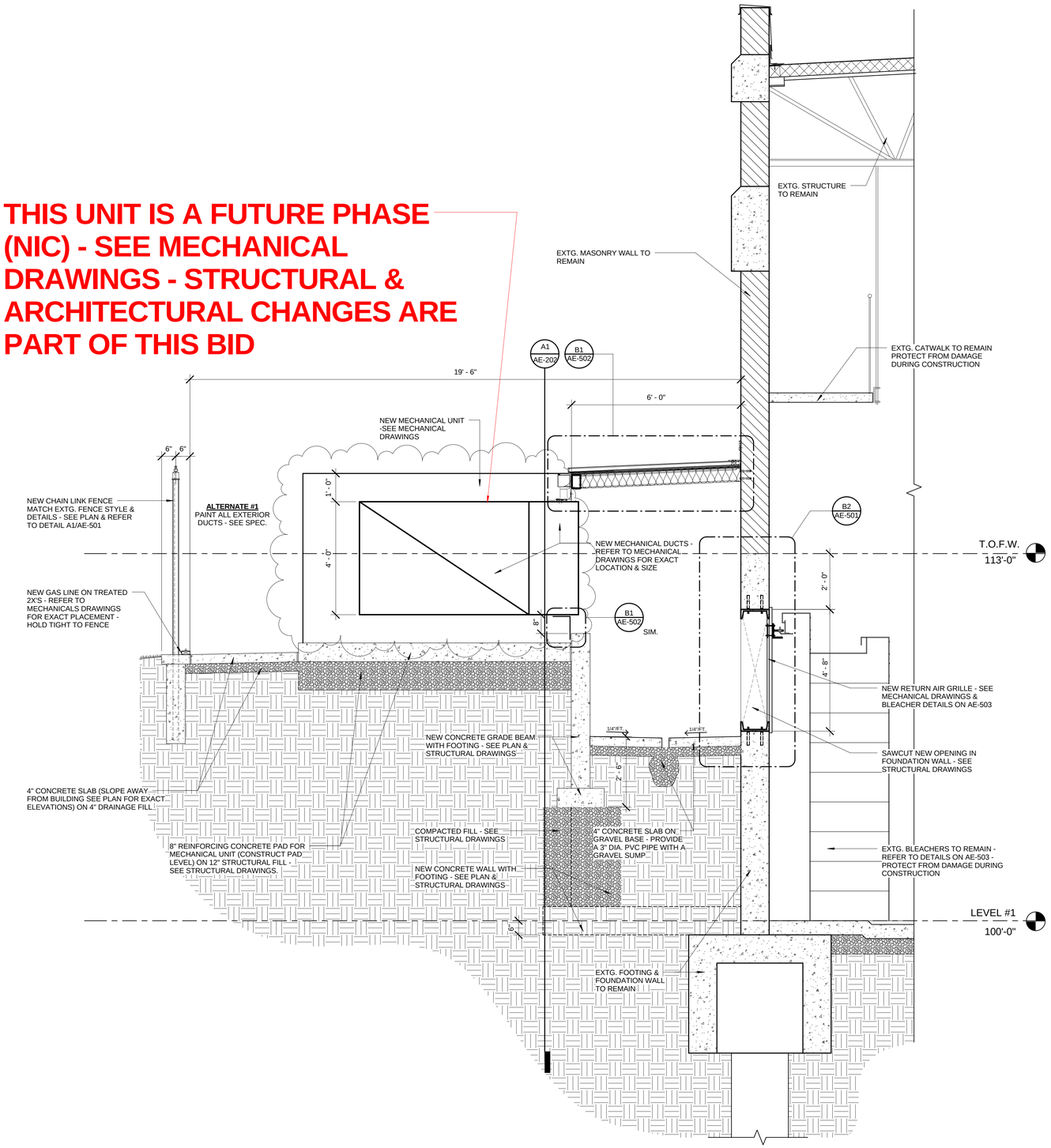
OWNER PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:
WALL SECTION

SHEET NUMBER:
AE-301

THIS UNIT IS A FUTURE PHASE (NIC) - SEE MECHANICAL DRAWINGS - STRUCTURAL & ARCHITECTURAL CHANGES ARE PART OF THIS BID



A1 WALL SECTION WEST RETURN
1/2" = 1'-0"

Last Plotted: 8/15/2007 9:03:39 AM

ARCHITECT'S INFORMATION:

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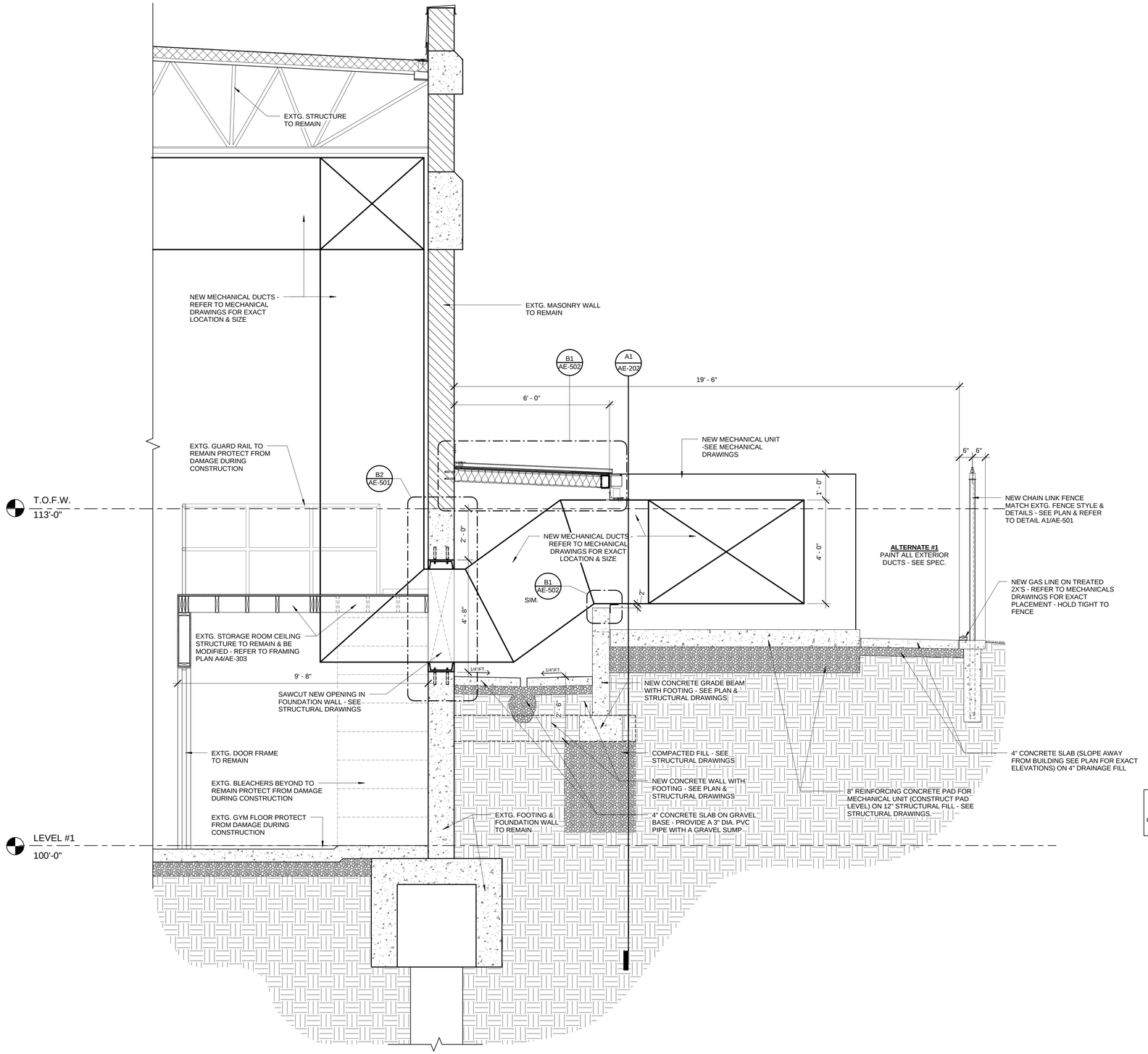
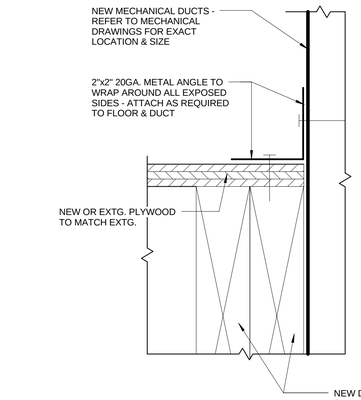
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:
WALL SECTION

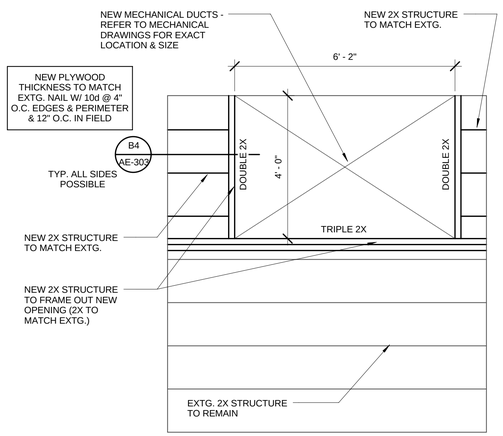
SHEET NUMBER:
AE-302



A1 WALL SECTION EAST SUPPLY
1/2" = 1'-0"



B4 FLOOR TO DUCT DETAIL
6" = 1'-0"



A4 FLOOR FRAMING PLAN
1/2" = 1'-0"

NORTH

Last Plotted: 8/15/2007 9:03:42 AM

ARCHITECT'S INFORMATION:

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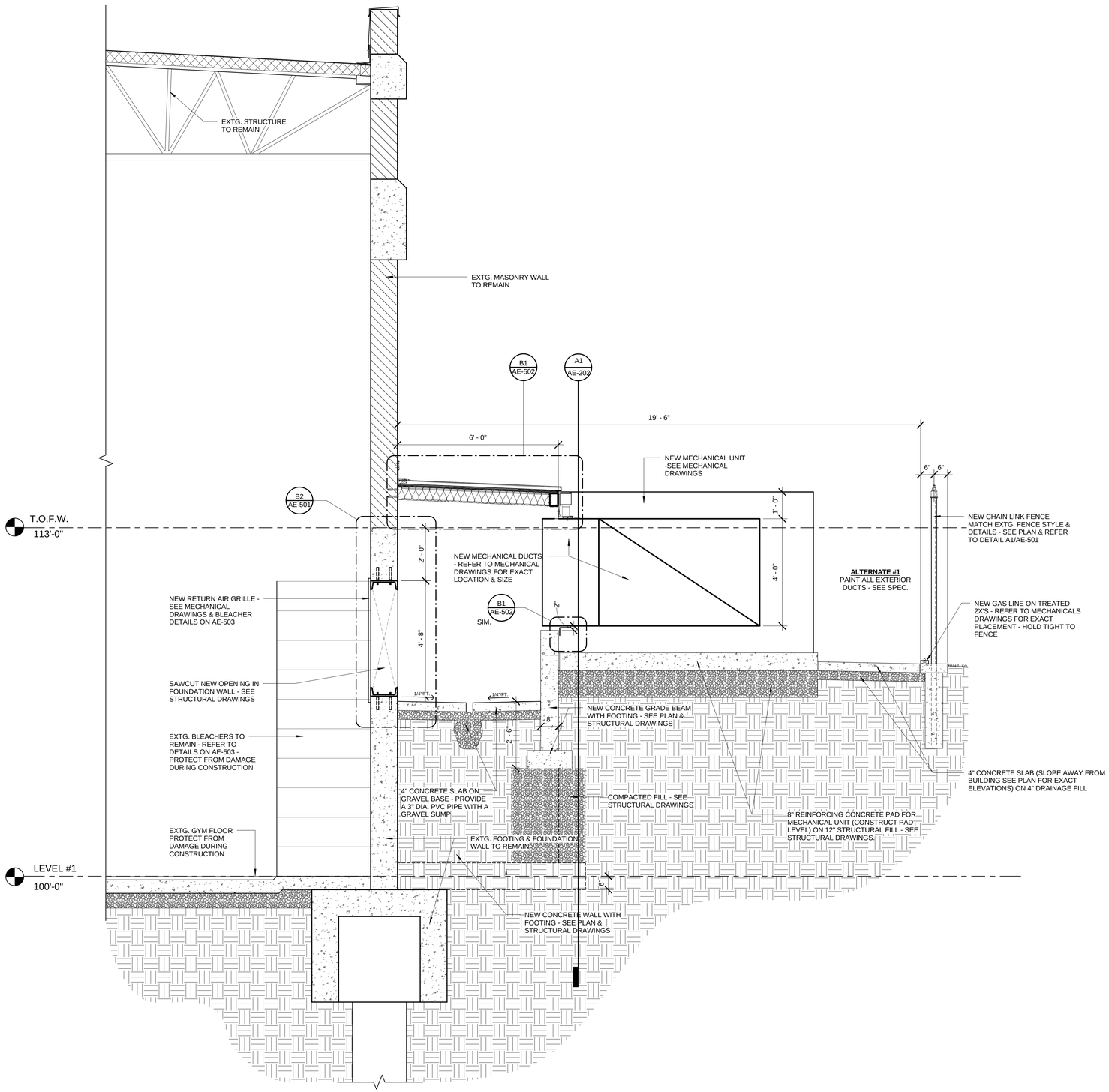
SPE PROJECT #:	06-35
DRAWN BY:	JBE
CHECKED BY:	RPL
DESIGNED BY:	RPL

SHEET TITLE:
WALL SECTION

SHEET NUMBER:
AE-303



A1 WALL SECTION EAST RETURN

1/2" = 1'-0"

Last Plotted: 8/15/2007 9:03:45 AM

ARCHITECT'S INFORMATION:

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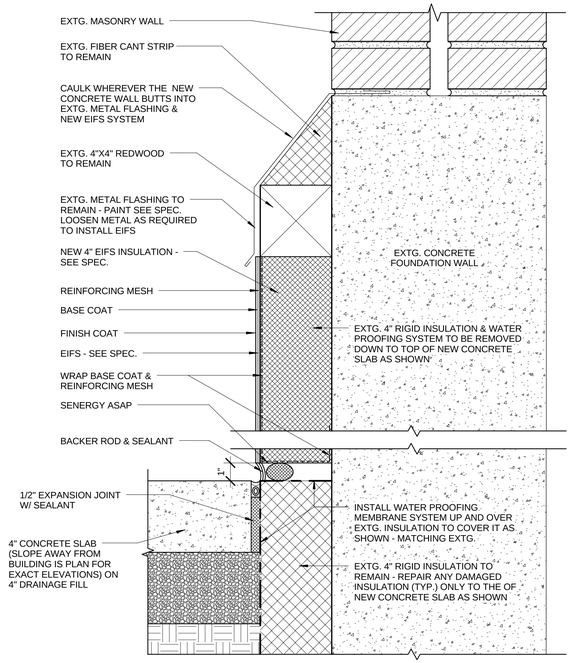
DESIGNED BY:	RPL

SHEET TITLE:

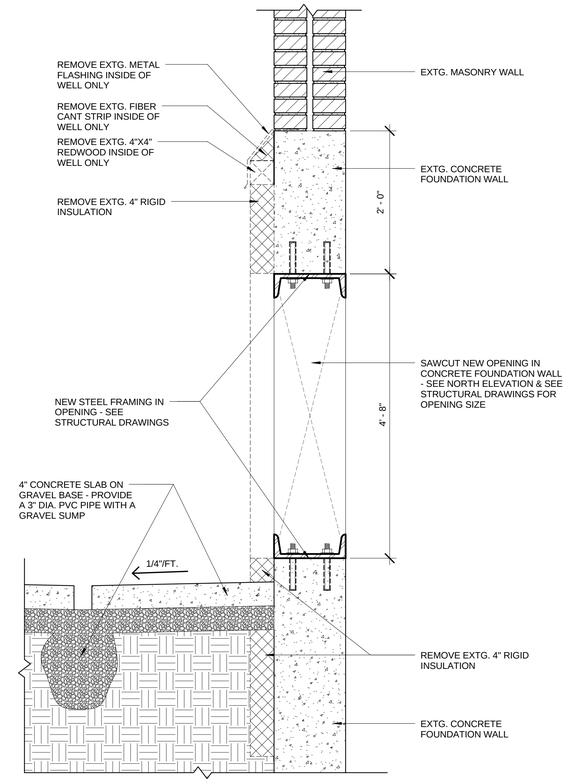
WALL SECTION

SHEET NUMBER:

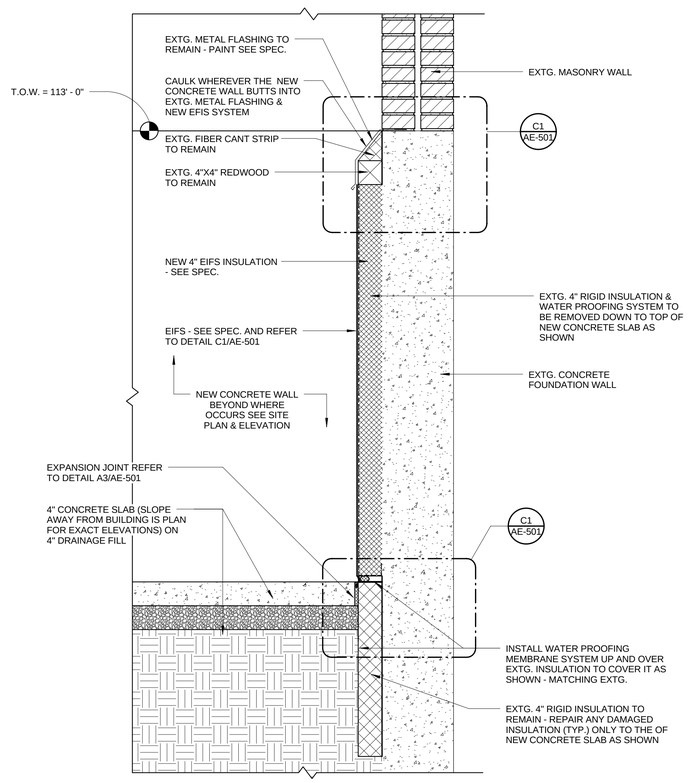
AE-304



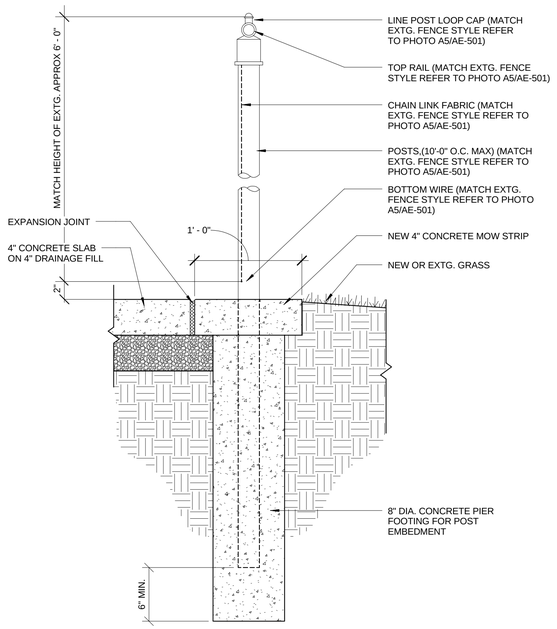
C1 METAL FLASHING DETAIL
3" = 1'-0"



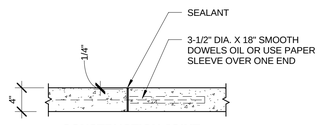
B2 FOUNDATION WALL DETAIL
1" = 1'-0"



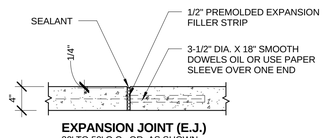
B3 FOUNDATION WALL DETAIL
1" = 1'-0"



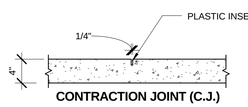
A1 CHAIN LINK FENCE DETAIL
1 1/2" = 1'-0"



CONSTRUCTION JOINT

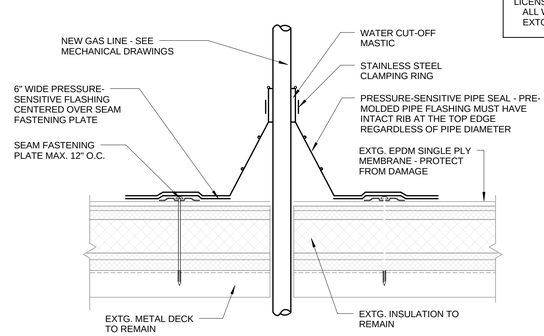


EXPANSION JOINT (E.J.)
30' TO 50' O.C. OR AS SHOWN



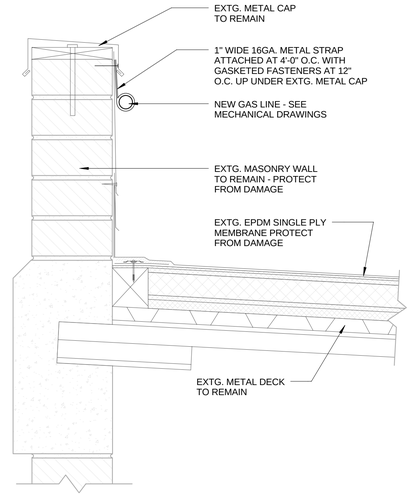
CONTRACTION JOINT (C.J.)

A2 CONCRETE JOINT DETAILS
1" = 1'-0"



A3 ROOF GAS LINE DETAIL
3" = 1'-0"

ALL NEW ROOFING IS TO BE DONE BY A QUALIFIED LICENSED CARLISLE ROOFER - ALL WORK IS TO MEET THE EXTG. 20 YEAR WARRANTY



A4 ROOF GAS LINE DETAIL #2
1 1/2" = 1'-0"

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SPECTRUM ENGINEERS

PROJECT NAME:
COLLEGE OF EASTERN UTAH
BUNNEL-DMITRICH
ATHLETIC CENTER
HVAC UPGRADE - REBID
451 EAST 400 NORTH
PRICE, UTAH 84501

REVISIONS:

NO.	DATE	DESCRIPTION

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OWNER PROJECT #:	06162610
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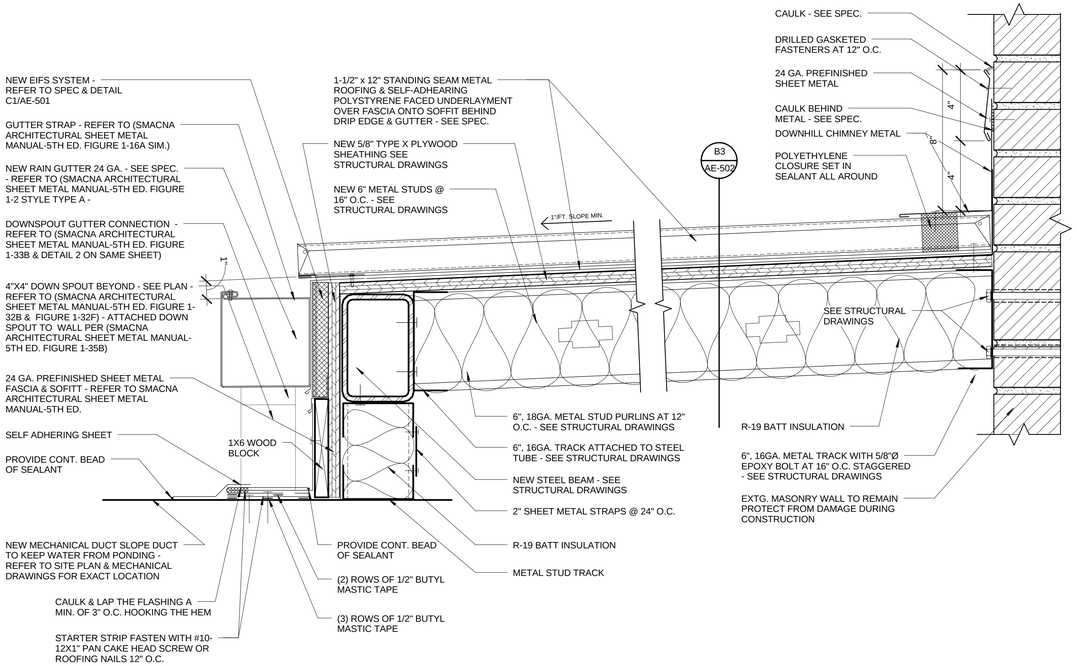
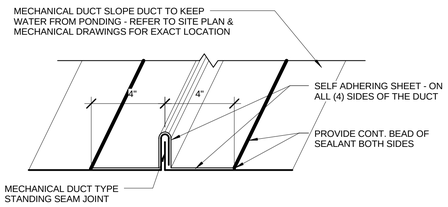
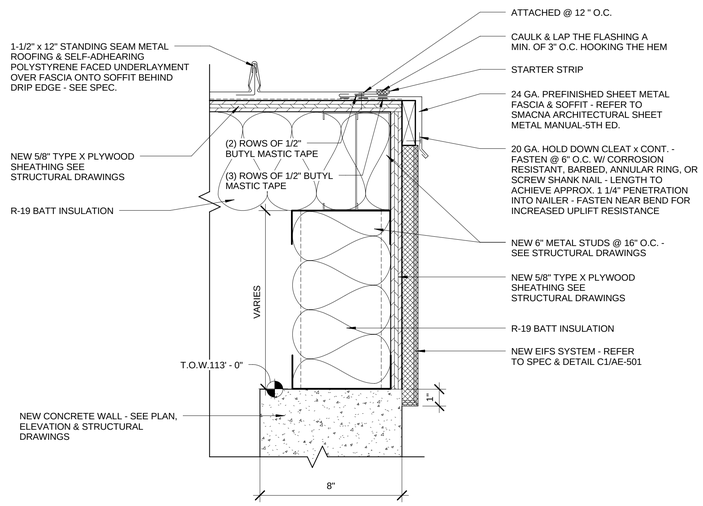


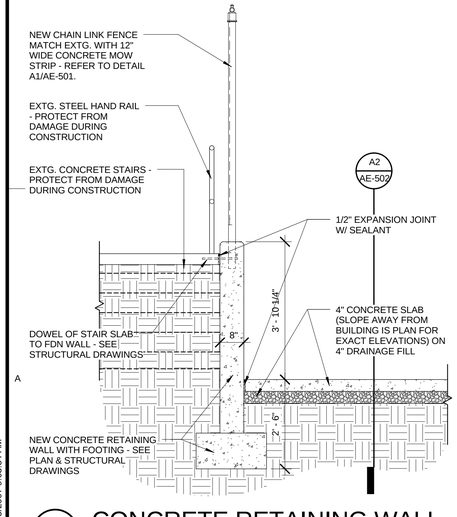
B1 ROOF DETAIL
3" = 1'-0"



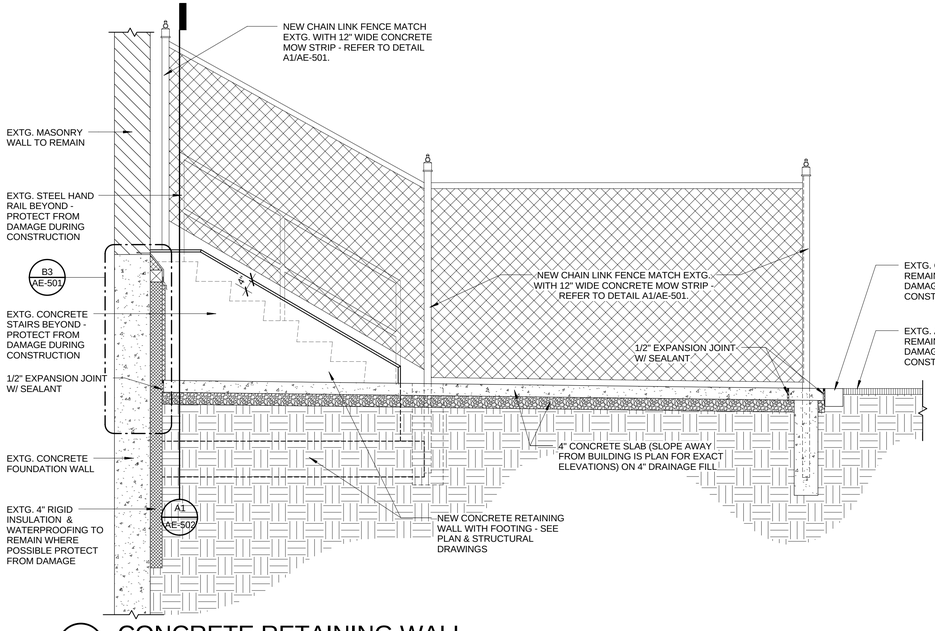
D3 METAL DUCT TYP. JOINT DETAIL
3" = 1'-0"



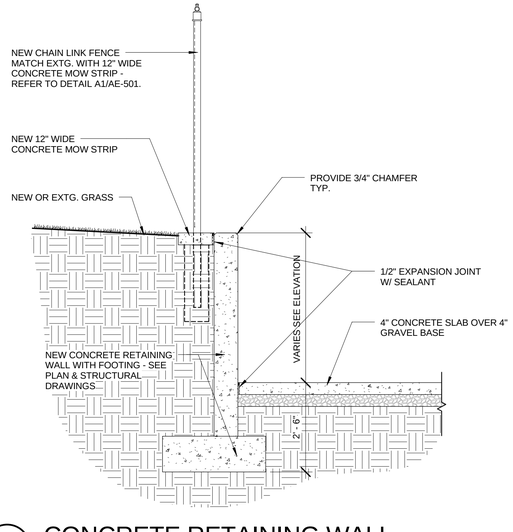
B3 ROOF DETAIL
3" = 1'-0"



A1 CONCRETE RETAINING WALL
1/2" = 1'-0"



A2 CONCRETE RETAINING WALL
1/2" = 1'-0"



A4 CONCRETE RETAINING WALL
1/2" = 1'-0"

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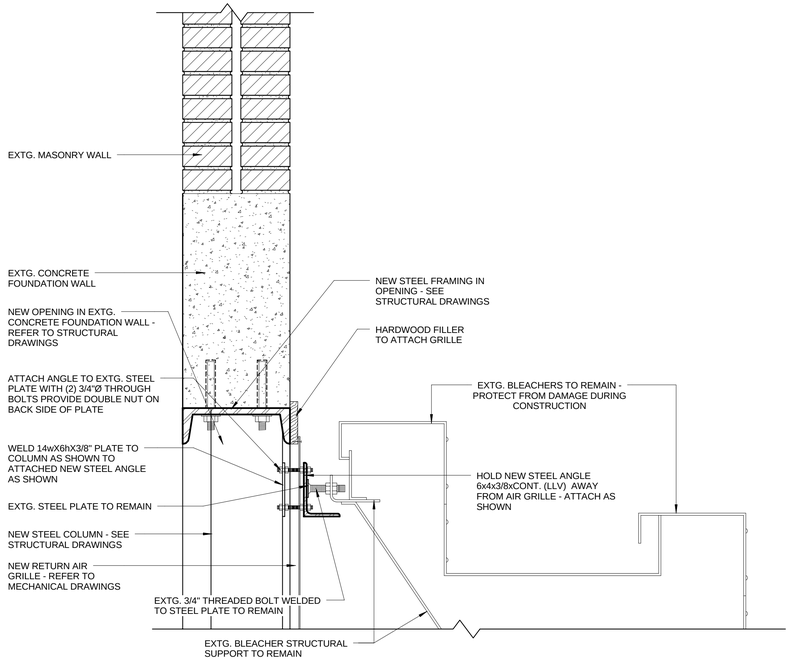
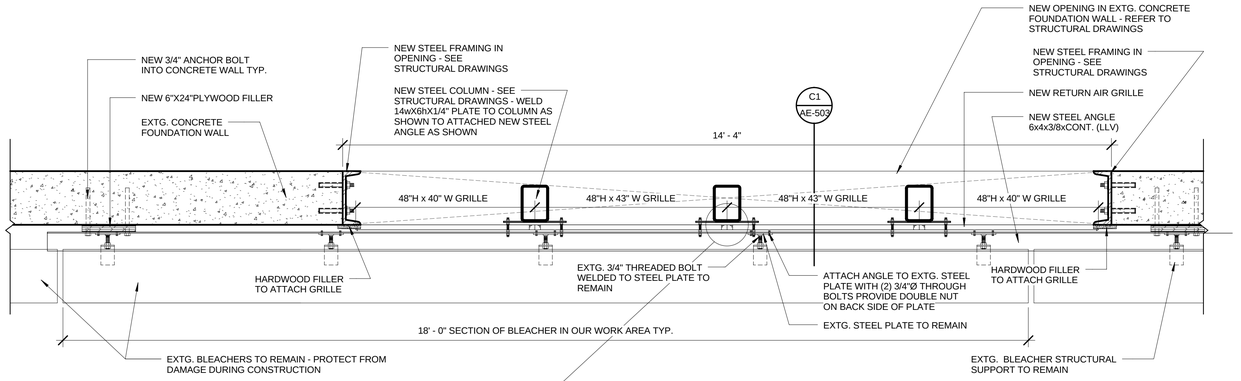


C1 NEW BLEACHER SUPPORT DETAIL

1 1/2" = 1'-0"

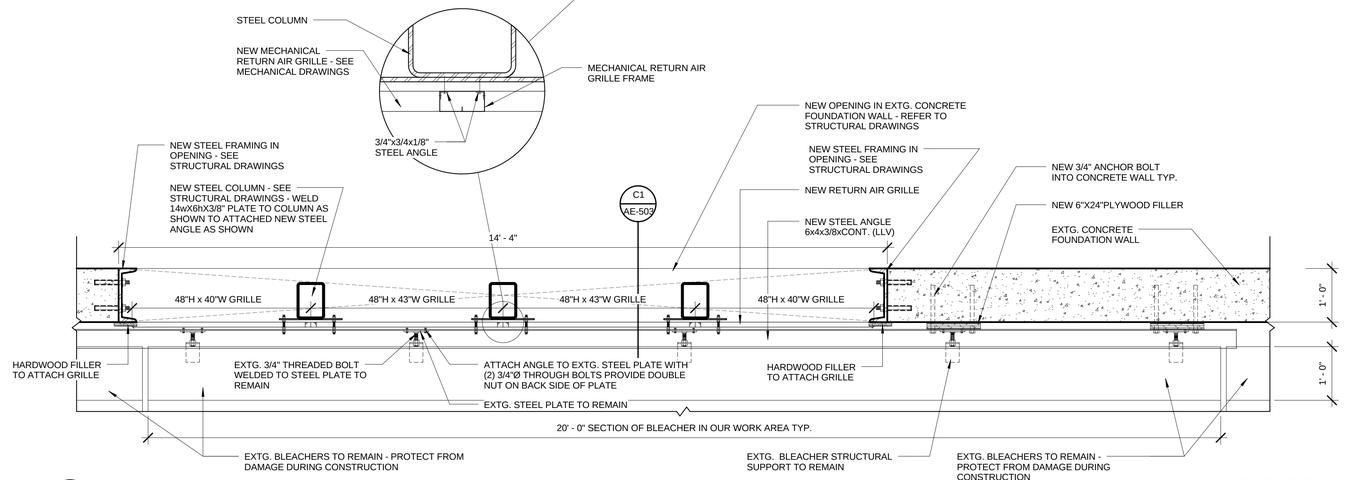
NEW CONDITION



C3 NEW BLEACHER SUPPORT DETAIL (WEST OPENING)

3/4" = 1'-0"

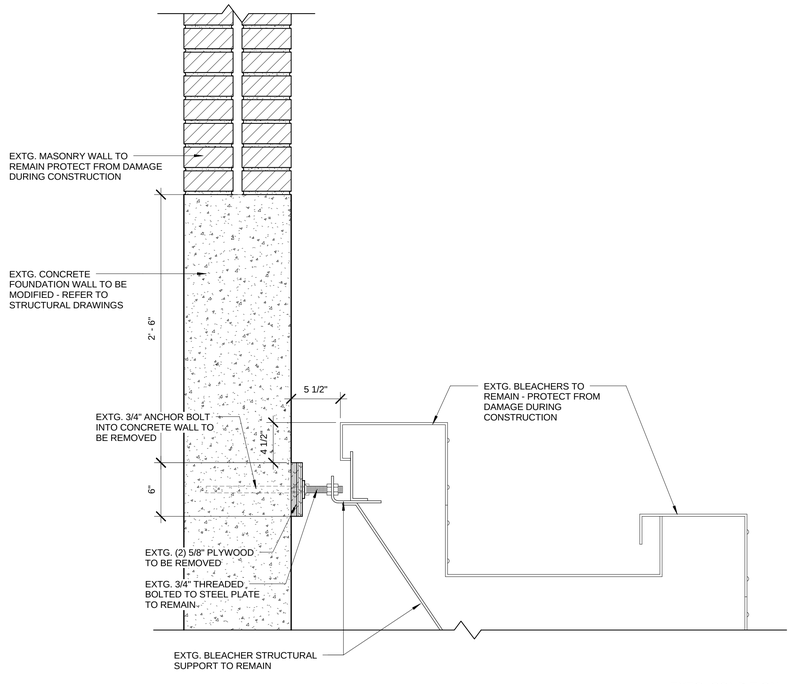
NEW CONDITION



B3 NEW BLEACHER SUPPORT DETAIL (EAST OPENING)

3/4" = 1'-0"

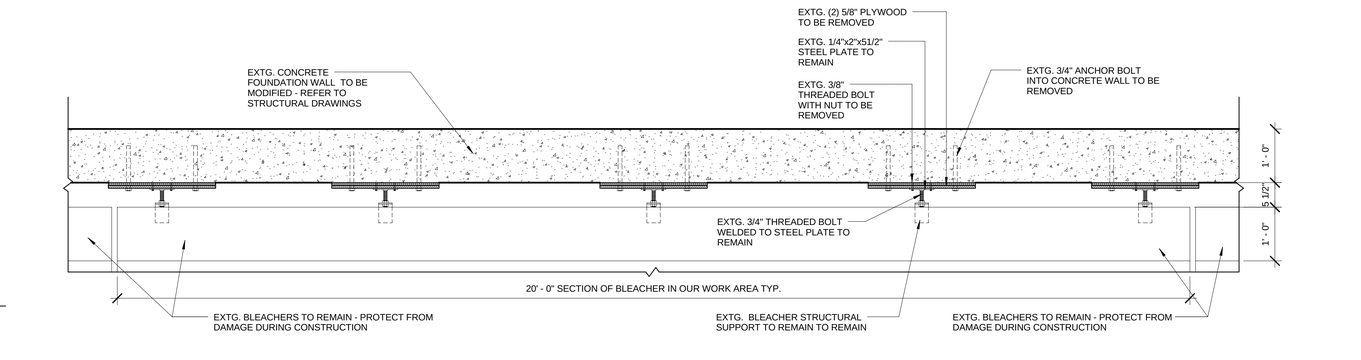
NEW CONDITION



A1 EXTG. BLEACHER SUPPORT DETAIL

1 1/2" = 1'-0"

EXTG. CONDITION



A3 EXTG. BLEACHER SUPPORT DETAIL

3/4" = 1'-0"

EXTG. CONDITION

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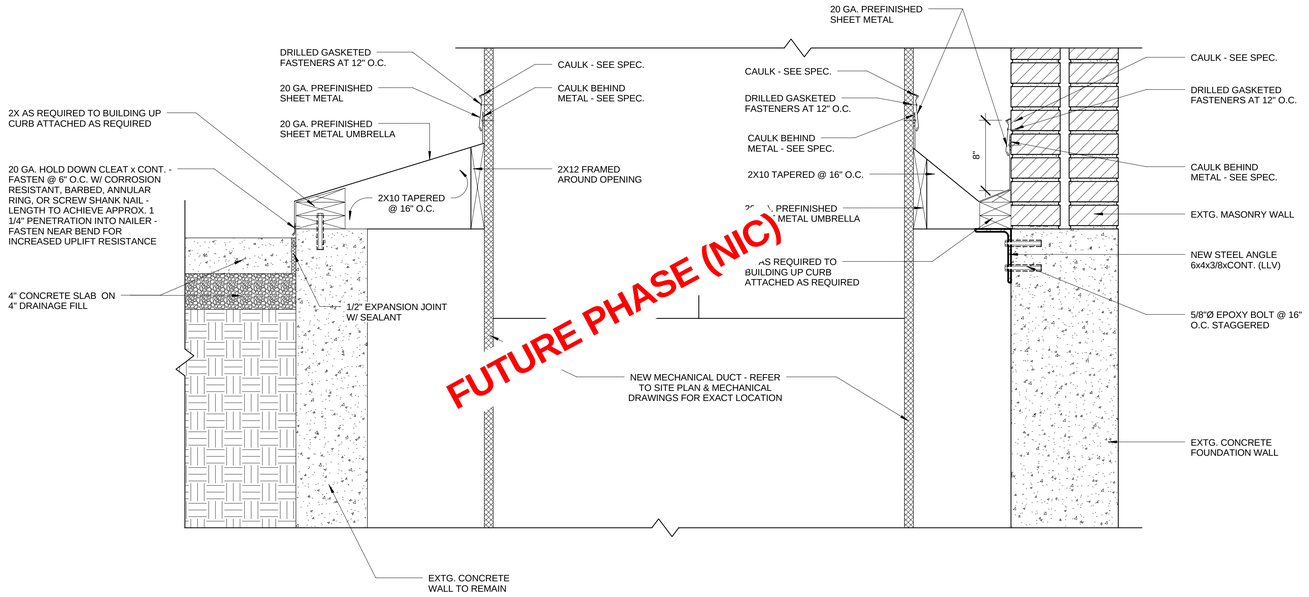
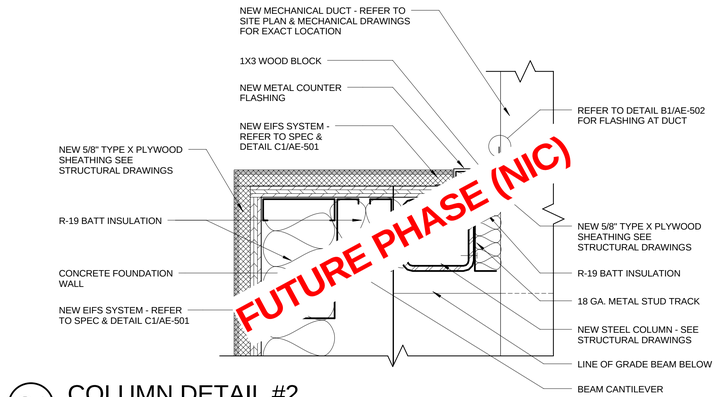


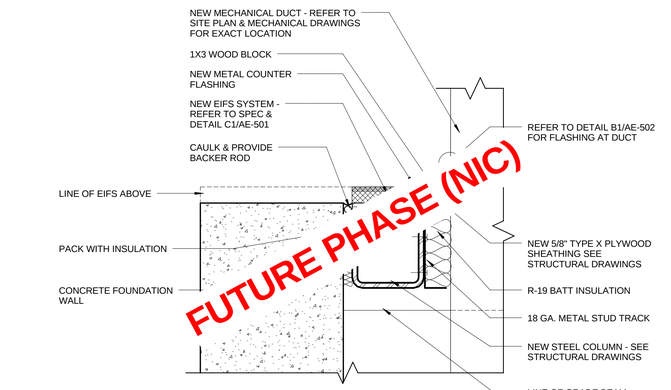
C1 AREA #2 DUCT DETAIL

1 1/2" = 1'-0"



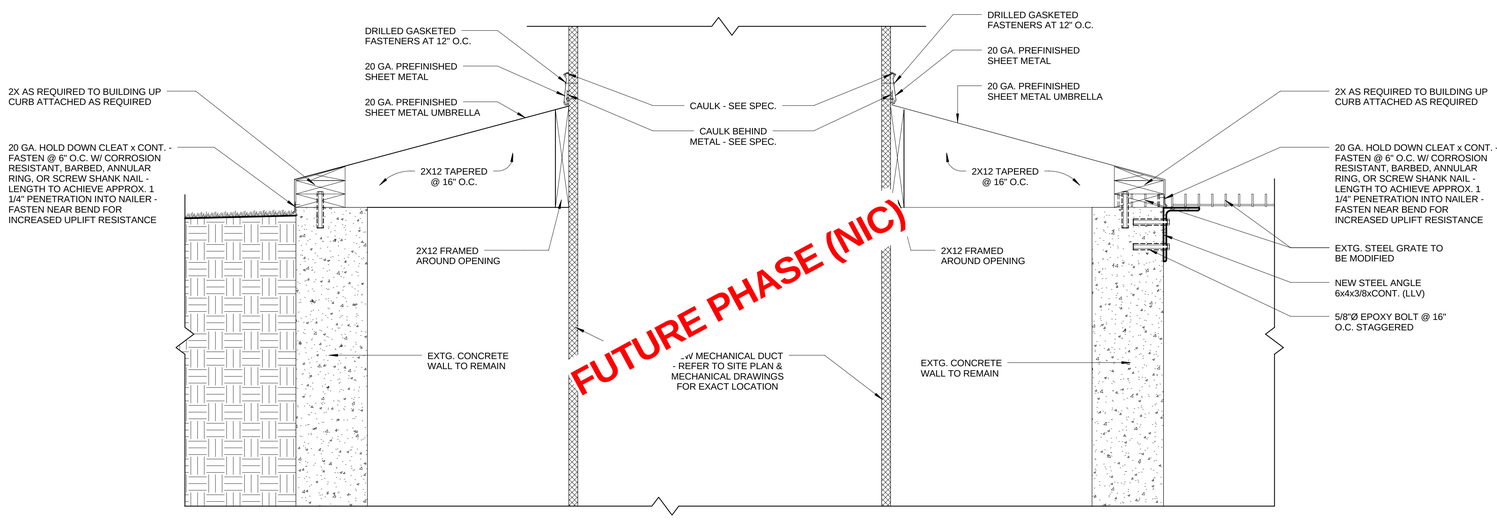
C4 COLUMN DETAIL #2

3" = 1'-0"



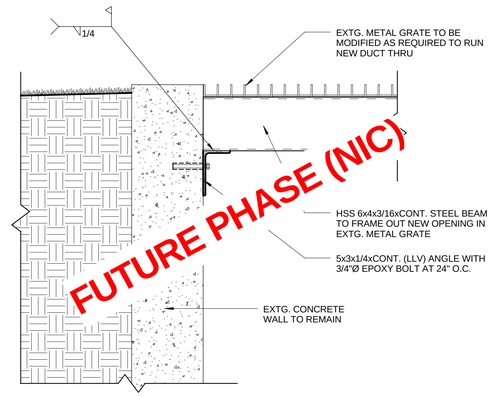
B4 COLUMN DETAIL

3" = 1'-0"



A1 AREA #2 DUCT DETAIL #2

1 1/2" = 1'-0"



A4 STEEL GRATE DETAIL

1 1/2" = 1'-0"

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DESIGNED BY:	RPL

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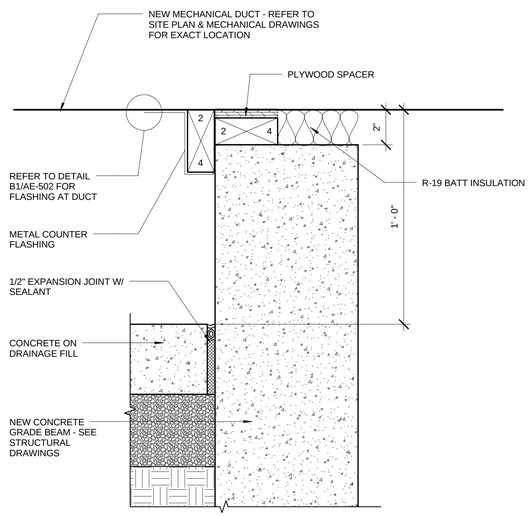
Last Plotted: 8/15/2007 9:04:04 AM



A1 DUCT DETAIL

3" = 1'-0"

Last Plotted: 8/15/2007 9:04:05 AM

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DETAILS

SHEET NUMBER:

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

MECHANICAL

- POSITIVE PRESSURE DUCT – RISE
- POSITIVE PRESSURE DUCT – DROP
- NEGATIVE PRESSURE DUCT – RISE
- NEGATIVE PRESSURE DUCT – DROP
- ROUND DUCT – RISE
- ROUND DUCT – DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
- 12X12 200 — CEILING SUPPLY DIFFUSER
- 22X22 200 — CEILING RETURN REGISTER
- 12X12 200 — CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
- 24X10 200 — SIDEWALL SUPPLY REGISTER
- 24X10 200 — SIDEWALL EXHAUST OR RETURN REGISTER
- 12X12 200 — CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
- 12X12 200 — CEILING AIR GRILLE WITH FLEXIBLE DUCT

(TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.)

- CEILING RETURN AIR GRILE W/ SOUND BOOT
- 1-1" SLOTS @ 48 400 — LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- FAN
- 12/8 FO — FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12/8 — RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12ø — ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- UP — INCLINED RISE
- DN — INCLINED DROP

(WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.)

- W R — R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
- 12/12 8/8 — RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
- 12/12 12ø — RECTANGULAR TO ROUND DUCT TRANSFORMATION
- R — BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- 250 250 45° DIA — TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- 12ø 12/12 — HIGH EFFICIENCY FITTING
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
- SD — SMOKE DAMPER W/ ACCESS PANEL
- BDD — BACK DRAFT DAMPER
- ATC OR — ATC DAMPER
- AD — ACCESS PANEL IN DUCT OR PLENUM
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- SD — DUCT SMOKE DETECTOR
- UNIT HEATER

PLUMBING

- FLOOR SINK
- FLOOR DRAIN
- FCO / COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- CHECK VALVE
- PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
- PRESSURE REDUCING, SELF CONTAINED VALVE
- ATC VALVE – 2 WAY
- ATC VALVE – 3 WAY
- SOLENOID VALVE
- GATE VALVE
- GATE VALVE – NON RISING STEM
- GLOBE VALVE
- TEMPERATURE AND PRESSURE TEST PORT
- PS — PRESSURE SWITCH
- LUBRICATED PLUG VALVE
- CBV — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- 0.0 GPM — FLOW CONTROL VALVE
- BRANCH – BOTTOM CONNECTION
- BRANCH – TOP CONNECTION
- BRANCH – SIDE CONNECTION
- RISE OR DROP
- RISER – DOWN (ELBOW)
- RISER – DOWN (ELBOW)
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- INLINE PUMP
- INLINE PUMP
- CLEAN-OUT
- RELIEF VALVE
- ANGLE VALVE
- FLOW METER
- UNION
- GAS COCK
- SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
- FLEXIBLE EXPANSION JOINT
- THERMOMETER – TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT-OFF COCK
- PRESSURE GAUGE WITH PIGTAIL
- LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
- MOTOR OPERATED BUTTERFLY VALVE
- VALVE IN RISE
- AIR VENT-MANUAL
- AIR VENT-AUTO
- FLOW SWITCH
- REDUCER
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER

PLUMBING CONT.

- HOSE BIBB
- PIPE CAP
- SWITCH
- S — SENSOR
- T — THERMOSTAT
- TN — NIGHT THERMOSTAT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- GPM / LB/HR. — FLOW METER ORIFICE
- FLANGE
- 90° ELBOW
- 45° ELBOW
- F&T — STEAM TRAP, F&T=FLOAT & THERMOSTATIC B=BUCKET, T=THERMOSTATIC
- DN — LEADER INDICATES DOWNWARD SLOPE
- DEMOLITION
- ALIGNMENT GUIDE
- AHCHOR

SYMBOLS

- P-1 — PLUMBING FIXTURES
- POINT OF CONNECTION
- A / M-101 — SECTION TAG – TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
- A / M101 — DETAIL TAG – TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
- EF / 1 — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE IDENTIFICATION

FIRE

- HOSE VALVE
- NRS GATE VALVE WITH SUPERVISION
- FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

LINETYPES

- AV — ACID VENT
- AW — ACID WASTE
- BBD — BOILER BLOW DOWN
- BF — BOILER FEED WATER
- B — BRINE
- CO2 — CARBON DIOXIDE
- CA — COMPRESSED AIR
- CF — CHEMICAL FEED
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- DCW — DOMESTIC COLD WATER (DCW)
- DHW — DOMESTIC HOT WATER (DHW)
- DHWR — DOMESTIC HOT WATER RETURN (DHWR)
- DI — DEIONIZED WATER SUPPLY
- DIR — DEIONIZED WATER RETURN
- E(NAME) — EXISTING PIPING
- X (NAME) X — EXISTING PIPING TO BE REMOVED
- GHR — GLYCOL HEAT RECOVERY PIPING
- G(NAME) — GLYCOL PIPING SOLUTION
- FOR — FUEL OIL RETURN
- FOS — FUEL OIL SUPPLY
- FOV — FUEL OIL VENT
- G — NATURAL GAS
- HC — HOT GAS
- HFR — HELICOPTER FUEL RETURN
- HFS — HELICOPTER FUEL SUPPLY
- HP(NAME) — HIGH PRESSURE DOMESTIC WATER
- HPC — HIGH PRESSURE CONDENSATE
- HPS — HIGH PRESSURE STEAM
- HWR — HEATING HOT WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- IA — INSTRUMENT AIR
- IA 120 — INSTRUMENT AIR AT PRESSURE INDICATED
- LA — LAB AIR
- LV — LAB VACUUM
- LPC — LOW PRESSURE CONDENSATE
- LPG — LIQUIFIED PETROLEUM GAS
- LPS — LOW PRESSURE STEAM
- MA — MEDICAL AIR
- MA 120 — MEDICAL AIR AT PRESSURE INDICATED
- MPC — MEDIUM PRESSURE CONDENSATE
- MPS — MEDIUM PRESSURE STEAM
- MUW — MAKE UP WATER
- MV — MEDICAL VACUUM
- N — NITROGEN
- N2O — NITROUS OXIDE
- OX — MEDICAL OXYGEN
- OX 120 — MEDICAL OXYGEN AT PRESSURE INDICATED
- PUMPED CONDENSATE

LINETYPES CONT.

- RO — REVERSE OSMOSIS WATER SUPPLY
- ROR — REVERSE OSMOSIS WATER RETURN
- RD — ROOF DRAIN
- RDO — ROOF DRAIN OVERFLOW
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- SEWER (BELOW GRADE)
- SEWER (ABOVE GRADE)
- SW — SOFT DOMESTIC WATER (SW)
- V — VACUUM
- VENT (SEWER)

ARCHITECT'S INFORMATION:

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PROFESSIONAL STAMP:

CONSULTANTS:

STRUCTURAL ENGINEER: MHH ENGINEERING

MECHANICAL ENGINEER: VIPA CONSULTING

ELECTRICAL ENGINEER: SPECTRUM ENGINEERS

SPECTRUM

PROJECT NAME:

COLLEGE OF EASTERN UTAH
BUNNEL-DMITRICH ATHLETIC CENTER
HVAC UPGRADE - REBID
451 EAST 400 NORTH
PRICE, UTAH 84501

REVISIONS:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
01	5/21/07	CONSTRUCTION DOCUMENTS
02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Elyarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

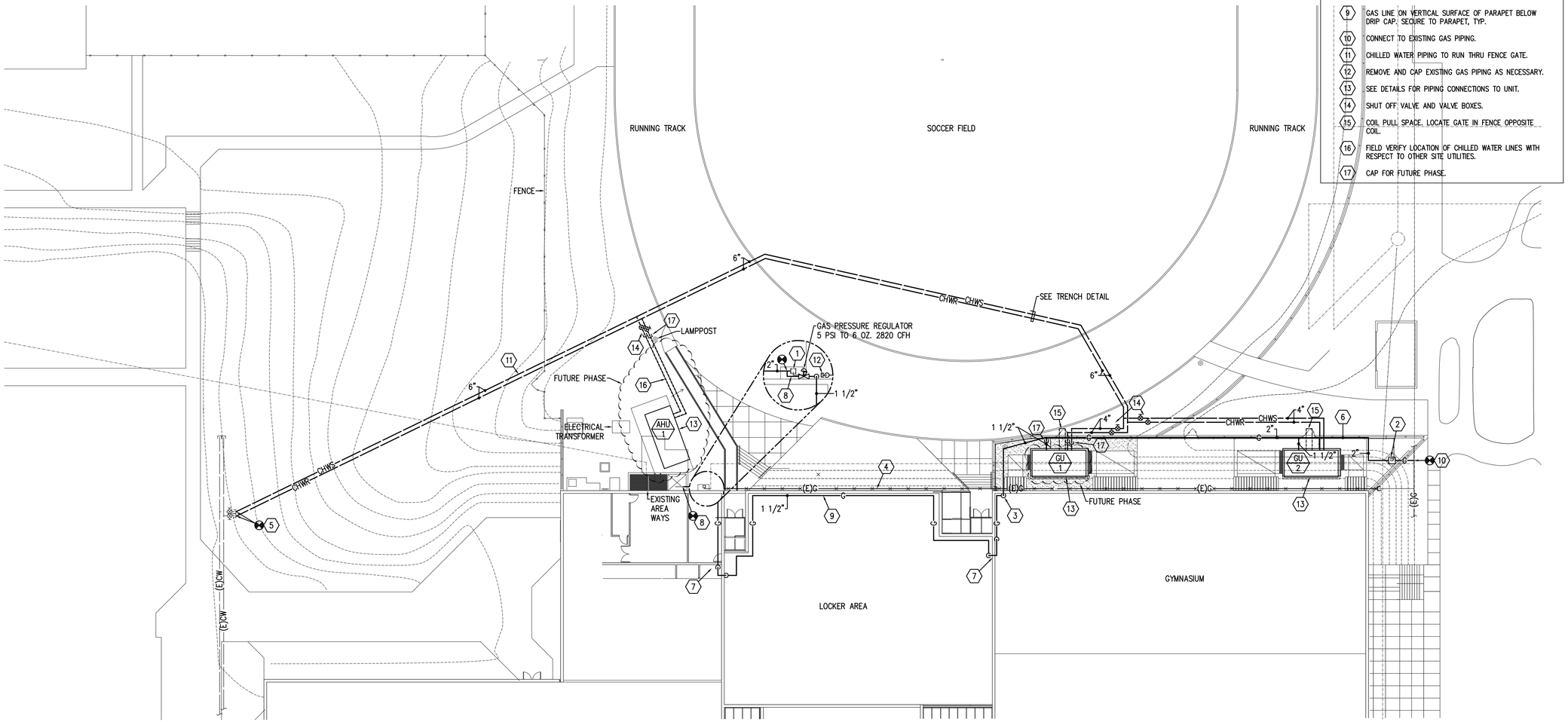
SHEET TITLE:

LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:

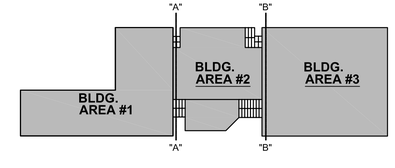
M-001

Last Plotted:



KEYED NOTES

1. REMOVE EXISTING GAS METER.
2. NEW GAS METER, 5 PSIG, TOTAL CONNECTED GAS 6730 CFH.
3. GAS LINE TO PUNCH THRU WALL INTO GYMNASIUM. GAS LINE TO RISE TO ROOF AND PUNCH THRU ROOF AND RUN ALONG PARAPET.
4. ABANDON EXISTING GAS LINE. FIELD VERIFY EXACT LOCATION. CAP ABANDONED SECTIONS, DEMO IF NECESSARY DURING CONSTRUCTION.
5. FIELD VERIFY LOCATIONS OF CHILLED WATER SUPPLY AND RETURN PIPING CONNECTIONS.
6. RUN 2" GAS LINE ALONG FENCE.
7. PROVIDE EXPANSION ELBOWS FOR GAS LINE WHEN IT CROSSES BUILDING EXPANSION JOINT.
8. REROUTE GAS PIPING THRU EXISTING AREAWAY AND CONNECT TO EXISTING GAS PIPING. COORDINATE ROUTING WITH NEW DUCTWORK.
9. GAS LINE ON VERTICAL SURFACE OF PARAPET BELOW DRIP CAP. SECURE TO PARAPET, TYP.
10. CONNECT TO EXISTING GAS PIPING.
11. CHILLED WATER PIPING TO RUN THRU FENCE GATE.
12. REMOVE AND CAP EXISTING GAS PIPING AS NECESSARY.
13. SEE DETAILS FOR PIPING CONNECTIONS TO UNIT.
14. SHUT OFF VALVE AND VALVE BOXES.
15. COIL PULL SPACE. LOCATE GATE IN FENCE OPPOSITE COIL.
16. FIELD VERIFY LOCATION OF CHILLED WATER LINES WITH RESPECT TO OTHER SITE UTILITIES.
17. CAP FOR FUTURE PHASE.



A1 MECHANICAL SITE PLAN
1" = 20'-0"

NORTH

A5 KEYPLAN
1" = 80'-0"

NORTH

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DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Eluarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:
MECHANICAL SITE PLAN

SHEET NUMBER:
MS-1

Last Plotted:

FUTURE PHASE

GENERAL NOTES

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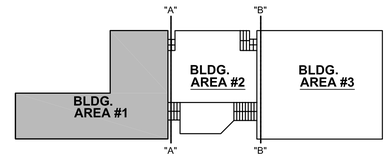
A1 LEVEL #1 AREA #1 MECHANICAL PLAN
1/8" = 1'-0"

NORTH



A5 KEYPLAN
1" = 80'-0"

NORTH

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DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Eluarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:

LEVEL #1
AREA #1
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER:

MP-1.1

Last Plotted:

FUTURE PHASE

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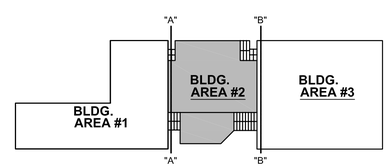

A1 LEVEL #1 AREA #2 MECHANICAL PLAN
1/8" = 1'-0"

NORTH

A5 KEYPLAN
1" = 80'-0"

NORTH

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DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Eljuarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:

LEVEL #1
AREA #2
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER:

MP-1.2

Last Plotted:

FUTURE PHASE

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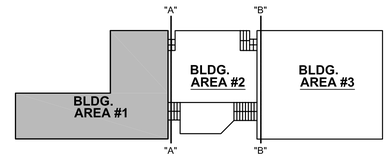
A1 LEVEL #2 AREA #1 MECHANICAL PLAN
1/16" = 1'-0"

NORTH



A5 KEYPLAN
1" = 80'-0"

NORTH

ARCHITECT'S INFORMATION:

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ATHLETIC CENTER
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PRICE, UTAH 84501

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DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Eluarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:

LEVEL #2
AREA #1
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER:

MP-2.1

Last Plotted:

FUTURE PHASE

GENERAL NOTES

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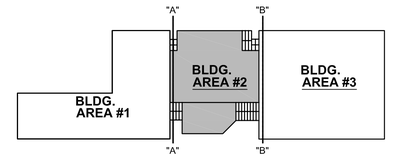

A5 KEYPLAN
1" = 80'-0"

NORTH

A1 LEVEL #2 AREA #2 MECHANICAL PLAN
1/16" = 1'-0"

NORTH

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SPE PROJECT #:	06-35
DRAWN BY:	Eljuarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

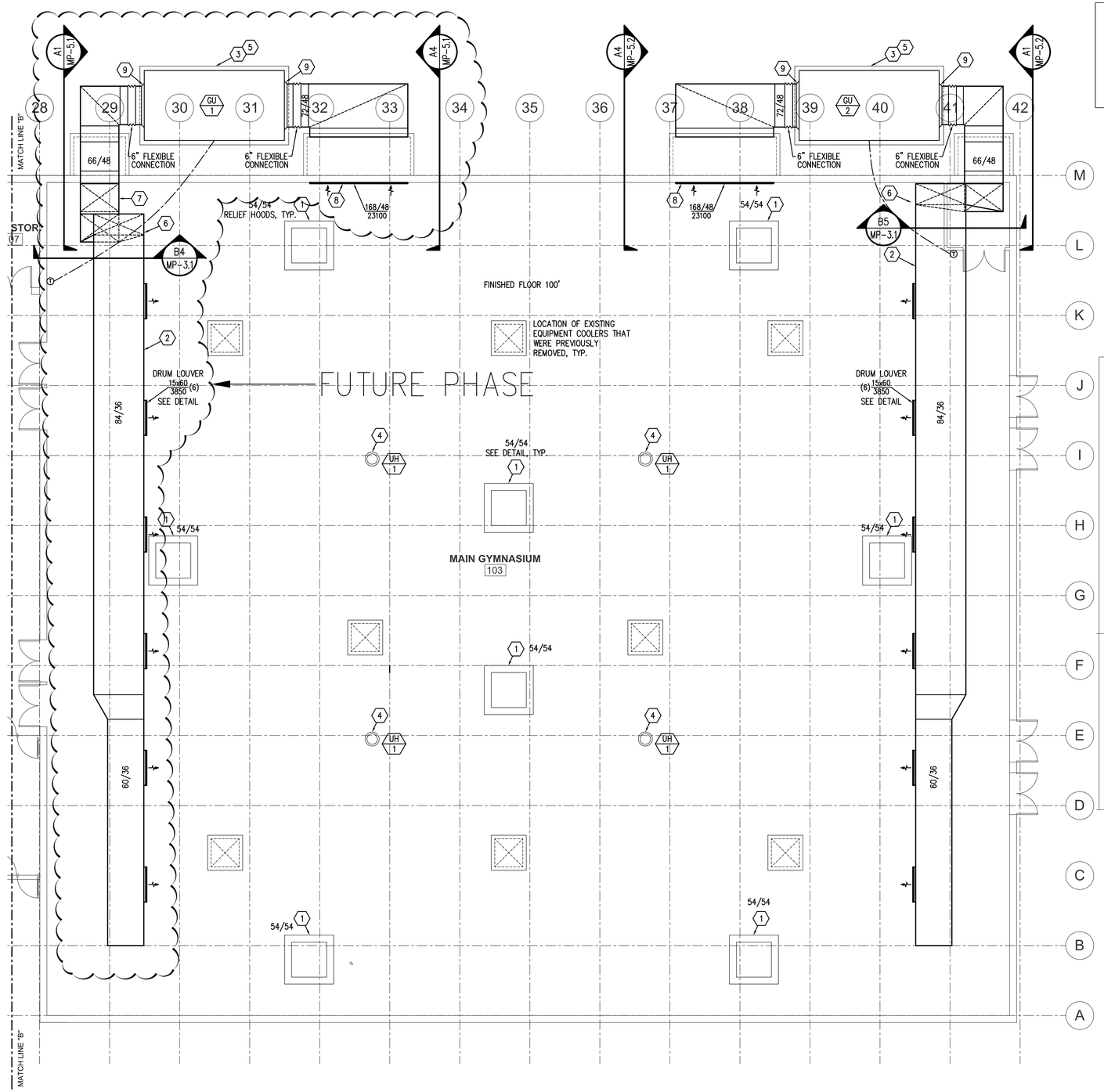
SHEET TITLE:

LEVEL #2
AREA #2
MECHANICAL
DEMOLITION PLAN

SHEET NUMBER:

MP-2.2

Last Plotted:



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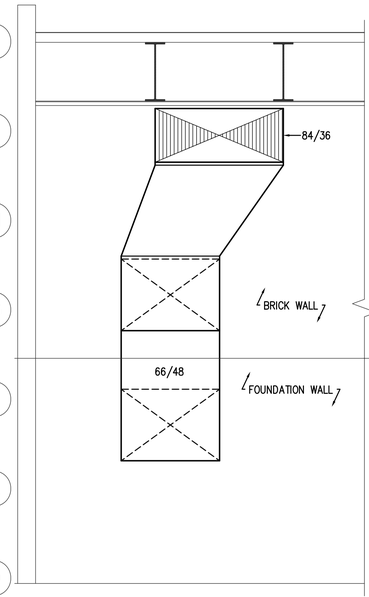
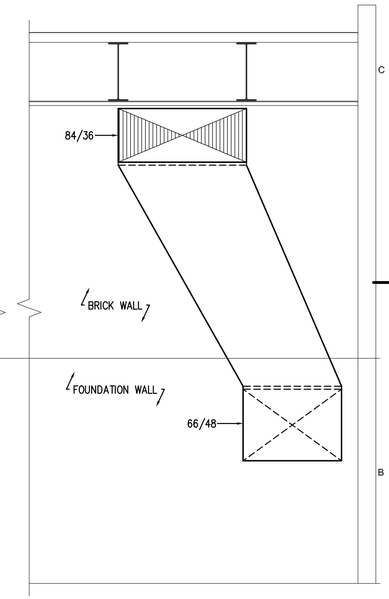
KEYED NOTES

1. INSTALL NEW ATC DAMPERS ON RELIEF HOODS AS ALTERNATE #2. FIELD VERIFY EXACT SIZE AND INSTALLATION REQUIRMENTS.
2. RUN DUCT AT BOTTOM OF STRUCTURE.
3. HOUSEKEEPING CONCRETE PAD. SEE ARCHITECTURAL AND STRUCTURAL DETAILS.
4. REPLACE WITH NEW UNIT HEATER AS ALTERNATE #1. DISCONNECT EXISTING UNIT HEATER FROM PIPING. RECONNECT NEW UNIT HEATER, MODIFYING THE PIPING AS NECESSARY. EXISTING VALVES AND CONTROLS TO REMAIN IN PLACE.
5. SEE MECHANICAL SITE PLAN FOR PIPING TO UNITS.
6. TRANSITION TO 84/36 IN RISE.
7. RISE TO BOTTOM OF CATWALK.
8. GRILLE TO BE DIVIDED INTO FOUR EQUAL WIDTHS. SEE ARCHITECTURAL PLANS FOR EXACT WIDTH.
9. BELL MOUTH CONNECTION TO UNIT.



B4 DUCT SECTION
1/4" = 1'-0"



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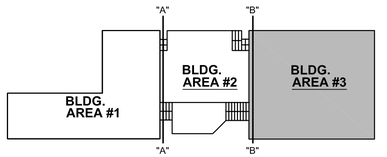

A1 LEVEL #1 AREA #3 MECHANICAL PLAN
1/8" = 1'-0"

A5 KEYPLAN
1" = 80'-0"

NORTH

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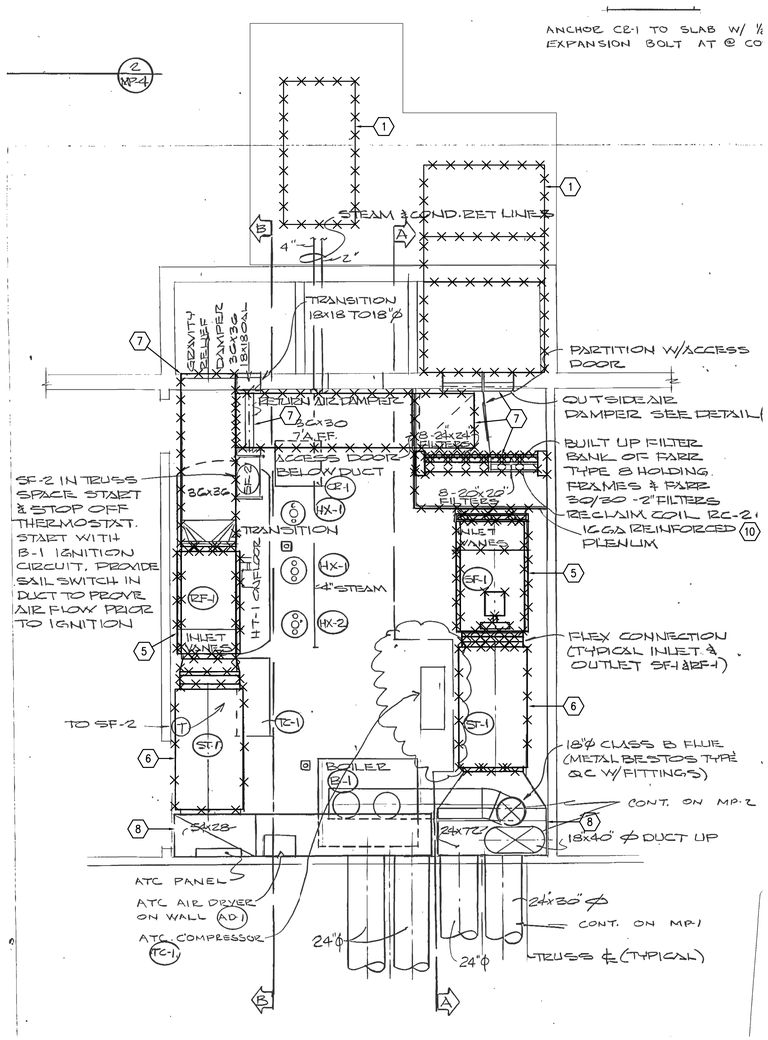
DRAWN BY:	Eljuarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

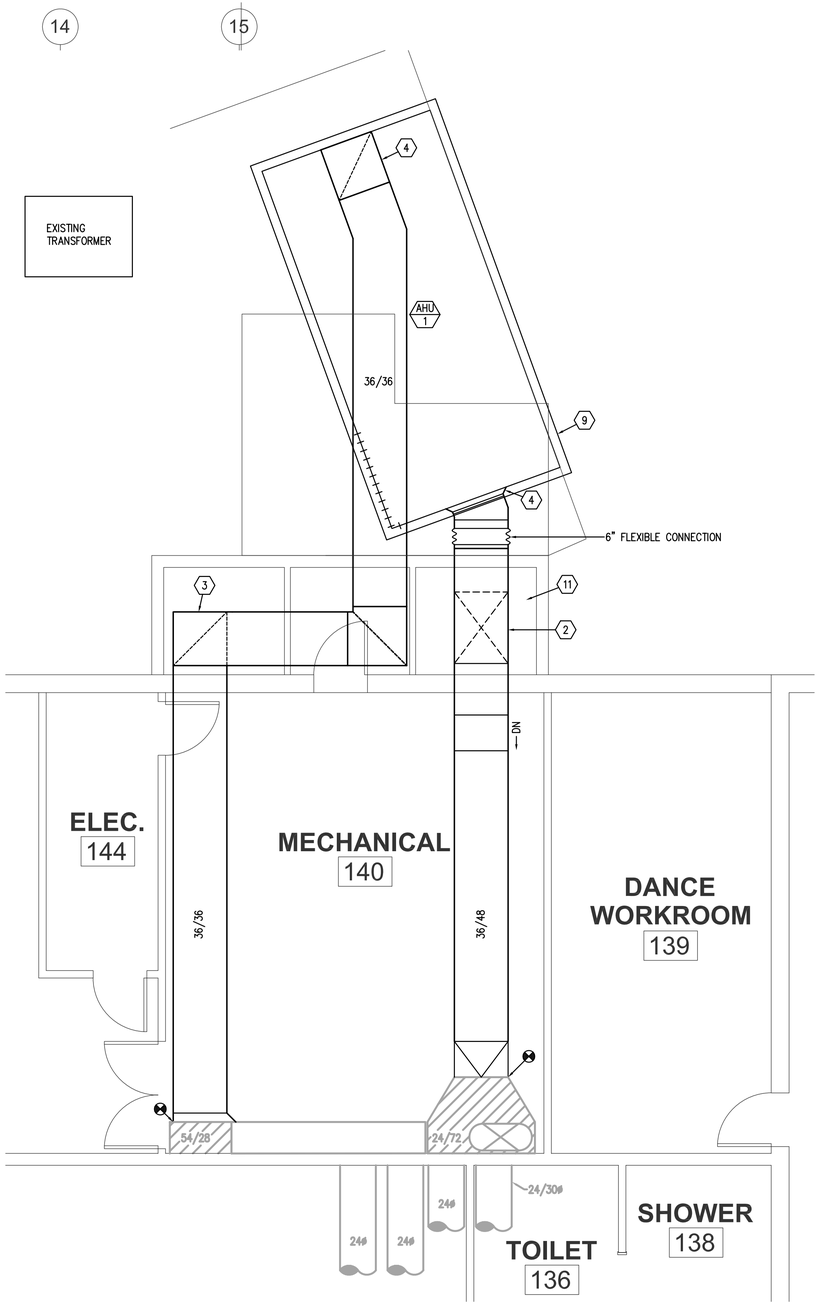
SHEET TITLE:
LEVEL #1 AREA #3 MECHANICAL PLAN

SHEET NUMBER:
MP-3.1

Last Plotted:



FUTURE PHASE



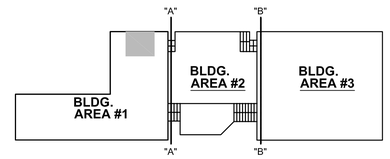
KEYED NOTES

CONTRACTOR TO NOTE THAT NEW KEYED NOTES HAVE BEEN ADDED TO THE EXISTING DRAWING ON THIS SHEET.

1. REMOVE EXISTING 2-STAGE EVAP COOLER AND ASSOCIATED PIPING.
2. SUPPLY DUCT TO RISE TO HEIGHT OF AHU SUPPLY DISCHARGE.
3. RETURN DUCT TO RISE TO HEIGHT OF TOP OF AHU.
4. BELL MOUTH CONNECTION TO UNIT.
5. REMOVE SUPPLY AND RETURN FAN.
6. REMOVE SOUND TRAP.
7. REMOVE FILTERS AND DAMPERS.
8. EXISTING RISERS TO REMAIN.
9. HOUSEKEEPING PAD. SEE ARCHITECTURAL AND STRUCTURAL PLANS.
10. REMOVE HEAT RECOVERY COIL VALVES AND PIPING. CAP PIPING AT MAINS.
11. SEAL AREA WITH SHEET METAL COVER.

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING. AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
3. EXISTING DUCTWORK SIZING AND ROUTING HAS BEEN TAKEN FROM EXISTING DRAWINGS PROVIDED BY OTHERS AND IS CONSIDERED TO BE SCHEMATIC AND APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT SIZE AND LOCATION OF ALL DUCTWORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK.
4. THE CONTRACTOR SHALL CAREFULLY COORDINATE ALL PHASES OF WORK WITH THE BUILDING OWNER'S REPRESENTATIVE. CAREFUL PLANNING AND SCHEDULING OF WORK SHALL BE DONE IN ADVANCE TO ENSURE THAT ALL SURROUNDING AREAS REMAIN OPERATIONAL AS NECESSARY.
5. ITEMS TO BE REMOVED ARE INDICATED WITH DARK "X" OVER EXISTING LINE WEIGHTS. APPROXIMATE POINTS OF REMOVAL AND EXTENT OF ITEMS TO BE DEMOLISHED ARE ALSO INDICATED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING. AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
7. THE CONTRACTOR SHALL FIELD COORDINATE ALL DEMOLITION WORK. FAILURE TO PROPERLY COORDINATE THE SCOPE OF WORK, AND ANY RESULTING COSTS, SHALL BE CONTRACTORS RESPONSIBILITY.
8. RECOMMENDED POINTS OF REMOVAL HAVE BEEN SHOWN TO ASSIST THE CONTRACTOR WITH DETERMINING THE INTENT OF THE CONTRACT DOCUMENTS. ALL EXACT POINTS OF REMOVAL SHALL BE FIELD VERIFIED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDE ALL CAPS, TERMINATION ETC. REQUIRED TO COMPLETE THE WORK. ADDITIONALLY, ITEMS REQUIRED FOR SEQUENCING OF THE WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. THE CONTRACTOR SHALL FIELD COORDINATE DUST AND NOISE CONTROL DURING ALL PHASES OF WORK. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY VENTILATION AND DUST BARRIERS REQUIRED.
11. EQUIPMENT BEING REMOVED IS TO BE RETURNED TO THE OWNER UNLESS OTHERWISE DIRECTED. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS THAT THE OWNER DOES NOT WISH TO RETAIN FOR POSSIBLE FUTURE RE-USE.
12. THE CONTRACTOR SHALL PROVIDE ALL PATCHING AND REPAIR REQUIRED DUE TO MECHANICAL EQUIPMENT BEING REMOVED.
13. CONTRACTOR TO ENSURE THAT POWER TO ALL EQUIPMENT BEING REMOVED IS PROPERLY TERMINATED.
14. THE LARGE SCALE MECHANICAL ROOM DEMOLITION PLAN IS A SCANNED IMAGE OF THE ORIGINAL DRAWING. INFORMATION ON SCANNED IMAGE IS FOR REFERENCE ONLY. THE INFORMATION INCLUDES ORIGINAL SCHEDULES, NOTES, SIZES, ETC.



A1 LARGE SCALE MECHANICAL ROOM DEMOLITION PLAN
1/4" = 1'-0"

A3 LARGE SCALE MECHANICAL ROOM PLAN
1/4" = 1'-0"
NORTH

A5 KEYPLAN
1" = 80'-0"
NORTH

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MECHANICAL ENGINEER: VIPA CONSULTING
ELECTRICAL ENGINEER: SPECTRUM ENGINEERS
SPECTRUM

PROJECT NAME:
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BUNNEL-DMITRICH ATHLETIC CENTER
HVAC UPGRADE - REBID
451 EAST 400 NORTH
PRICE, UTAH 84501

REVISIONS:
NO.	DATE	DESCRIPTION

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02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

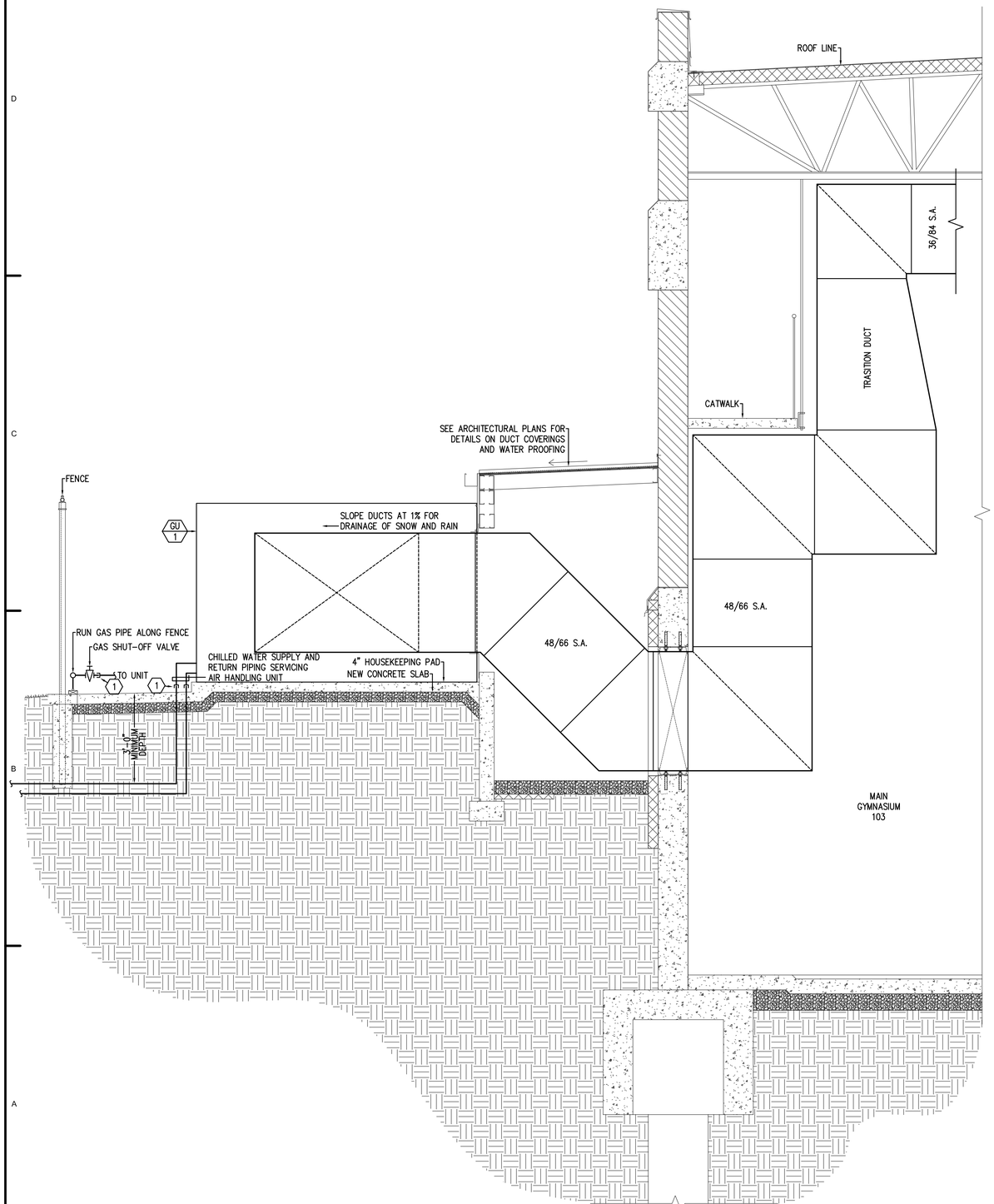
DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Eljuarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:
LARGE SCALE MECHANICAL RM. DEMO/NEW PLAN

SHEET NUMBER:
MP-4.1

Last Plotted:

FUTURE PHASE



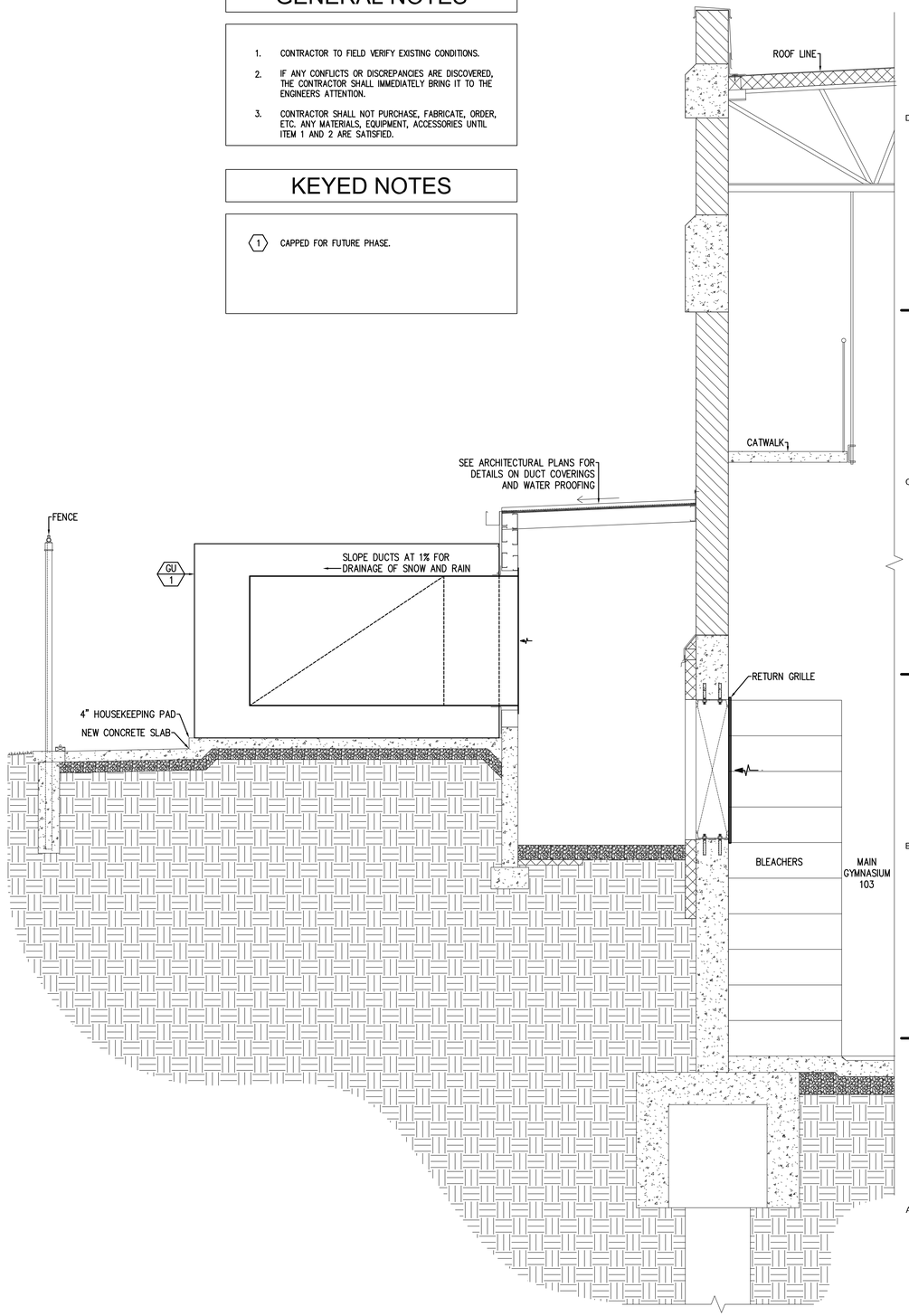
A1 MECHANICAL BUILDING SECTION - WEST SUPPLY
1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
2. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEERS ATTENTION.
3. CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.

KEYED NOTES

1. CAPPED FOR FUTURE PHASE.



A4 MECHANICAL BUILDING SECTION - WEST RETURN
1/2" = 1'-0"

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SPE PROJECT #:	06-35
DRAWN BY:	Elvarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

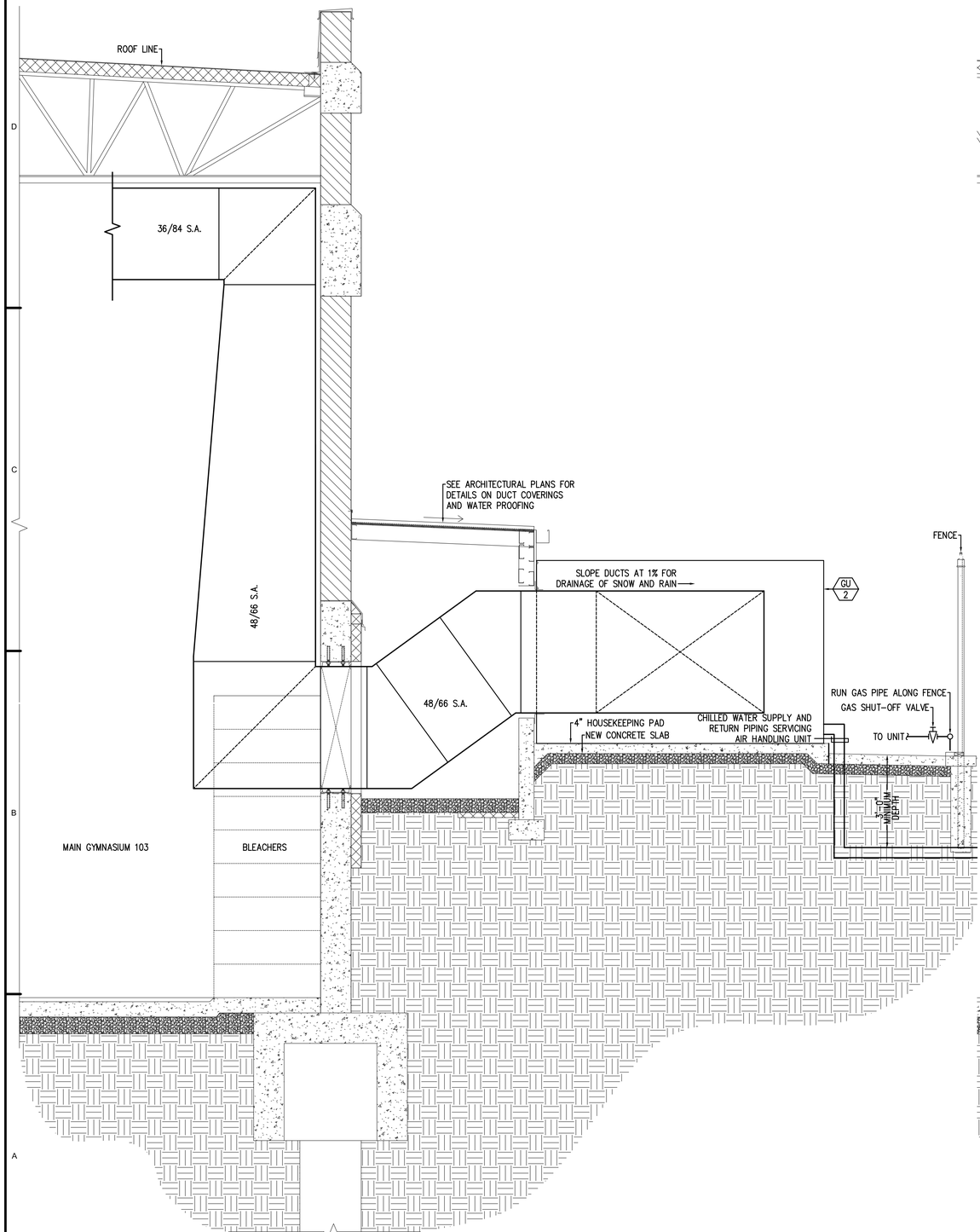
SHEET TITLE:

MECHANICAL BUILDING SECTIONS

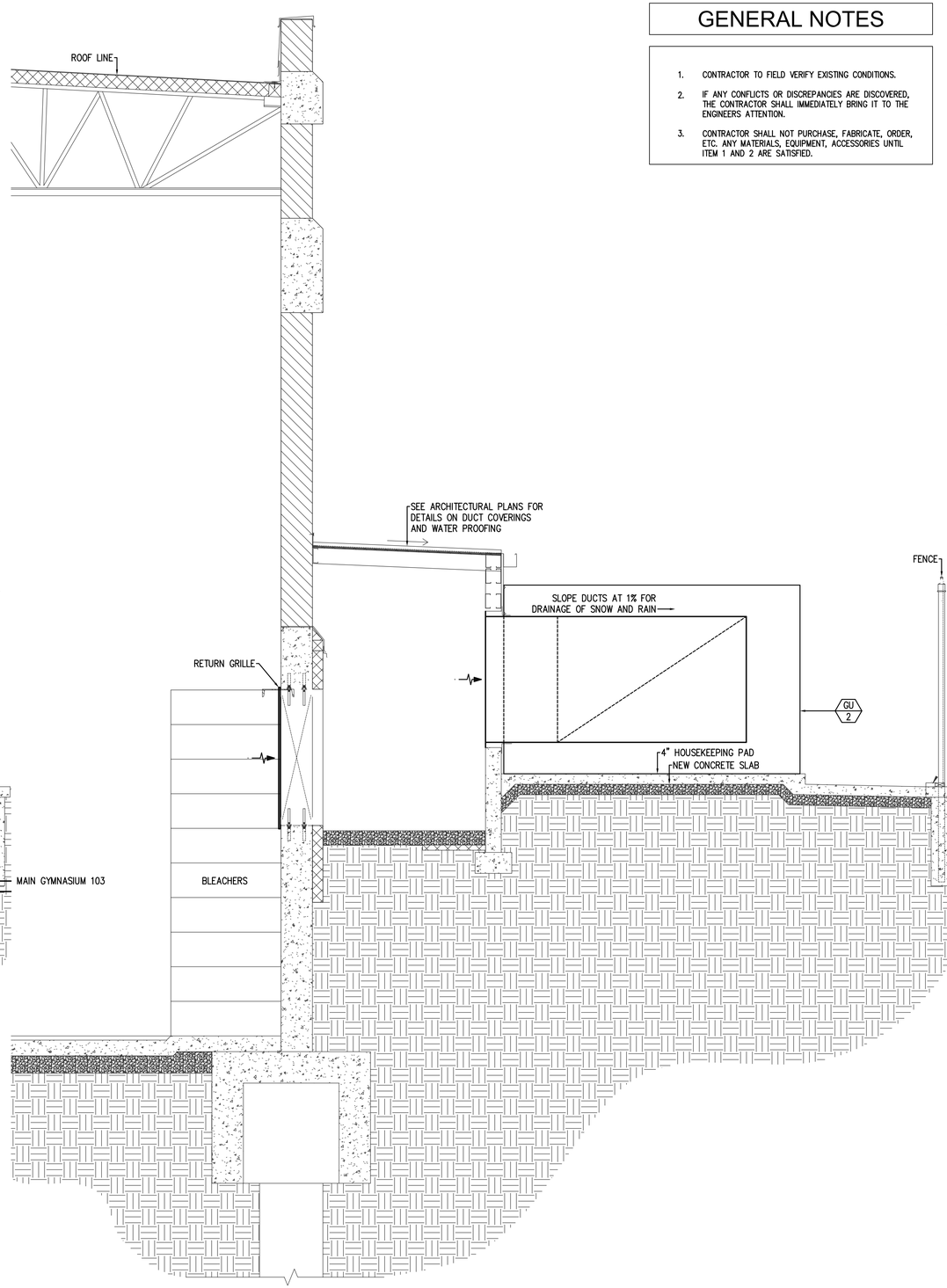
SHEET NUMBER:

MP-5.1

Last Plotted:



A1 MECHANICAL BUILDING SECTION - EAST SUPPLY
1/2" = 1'-0"



A4 MECHANICAL BUILDING SECTION - EAST RETURN
1/2" = 1'-0"

GENERAL NOTES

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2. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEERS ATTENTION.
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SPE PROJECT #:	06-35
DRAWN BY:	Eljarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

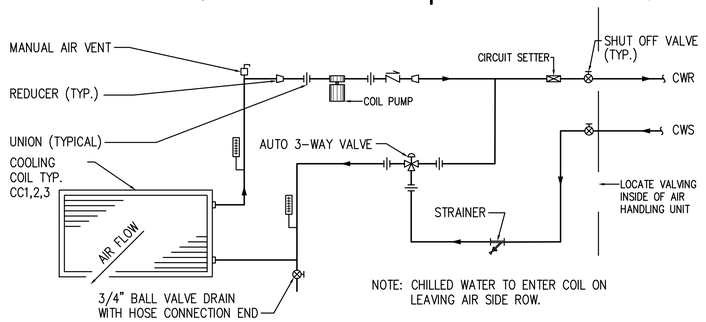
SHEET TITLE:

MECHANICAL BUILDING SECTIONS

SHEET NUMBER:

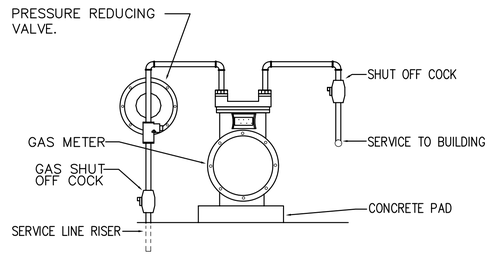
MP-5.2

Last Plotted:



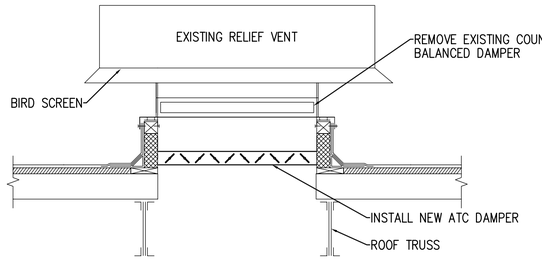
CHILLED WATER COIL PIPING DETAIL

NO SCALE



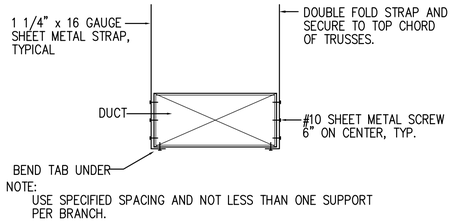
GAS METER DETAIL

NO SCALE



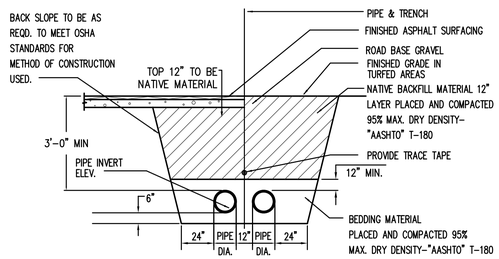
TYPICAL EXISTING RELIEF HOOD DETAIL

NO SCALE



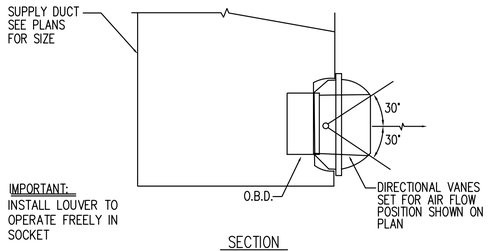
RECTANGULAR DUCT SUPPORT

NO SCALE



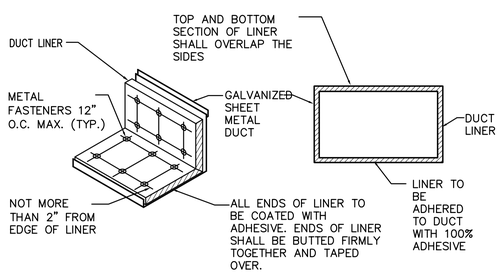
TYPICAL PIPE SECTION

NO SCALE



DRUM LOUVER DETAIL

NO SCALE



DUCT LINER DETAIL

NO SCALE

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SPE PROJECT #:	06-35
DRAWN BY:	Eljarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

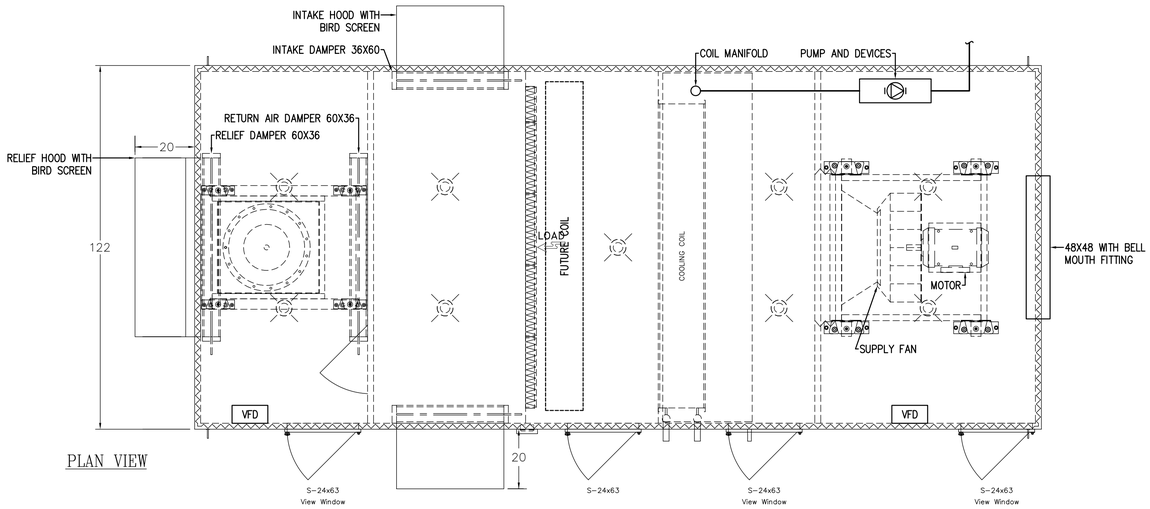
SHEET TITLE:

MECHANICAL
DETAILS

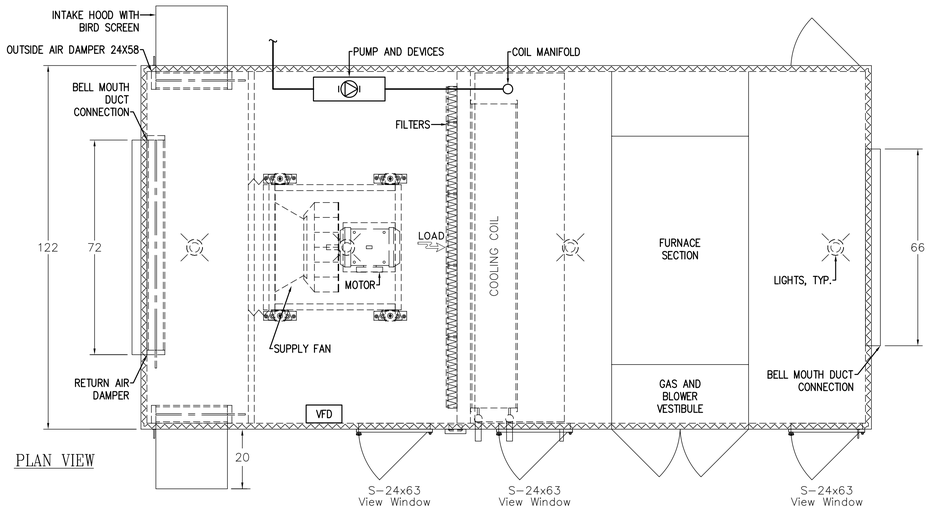
SHEET NUMBER:

MP-6.1

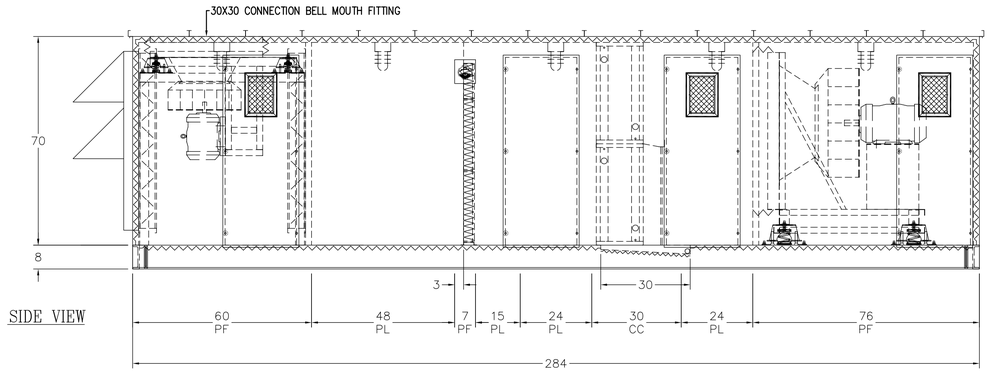
Last Plotted:



PLAN VIEW



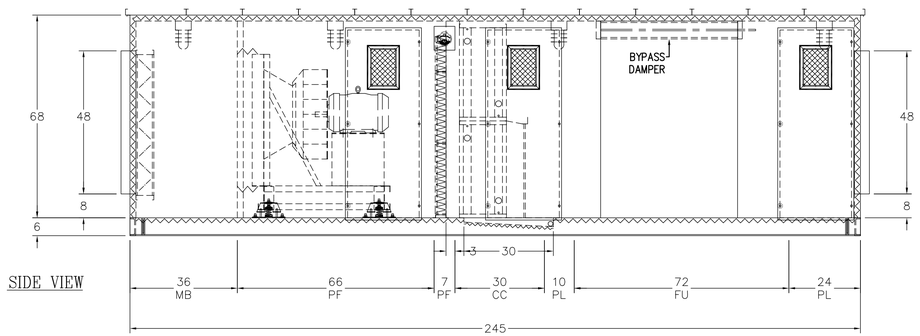
PLAN VIEW



SIDE VIEW

AHU-1 – FUTURE PHASE

NO SCALE



SIDE VIEW

GU-2, GU-1 FUTURE PHASE

NO SCALE

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DFCM PROJECT #:	06162610
SPE PROJECT #:	06-35
DRAWN BY:	Eljuarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

MP-6.2

Last Plotted:

AIR HANDLER SCHEDULE

		AIR	COMPONENTS					ELECTRICAL	PHYSICAL	
ID	MANUFACTURER	SUPPLY AIRFLOW (CFM)	FANS	COILS	FURNACE	PUMP	FILTER	SINGLE POINT VOLT/PH/HZ	WEIGHT (LB)	NOTES
GU-1	Energy Labs	23000	SF-1	CC-1	F-1	P-1	(8)24X24X4" (6)12X24X4"	460/3	11000	FUTURE PHASE
GU-2	Energy Labs	23000	SF-2	CC-2	F-2	P-2	(8)24X24X4" (6)12X24X4"	460/3	11000	
AHU-1	Energy Labs	24000	SF-3, RF-3	CC-3	N/A	P-3	(8)24X24X4" (6)12X24X4"	460/3	14000	FUTURE PHASE

FAN SCHEDULE

				AIR		FAN				ELECTRICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. WATER)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	NOTES
SF-1	ENERGY LABS	GU-1	PLENUM	23000	3.5	1780	30	20	19.28	1800	460/3	FUTURE PHASE
SF-2	ENERGY LABS	GU-2	PLENUM	23000	3.5	1780	30	20	19.28	1800	460/3	
SF-3	ENERGY LABS	AHU-1	PLENUM	24000	4.5	1284	36.5	25	24.01	1800	460/3	FUTURE PHASE
RF-3	ENERGY LABS	AHU-1	PLENUM	15000	1.5	1898	24.5	10	8	1800	460/3	FUTURE PHASE

COIL SCHEDULE

				AIR						FLUID				PHYSICAL				
ID	MANUFACTURER	LOCATION	USAGE	AIRFLOW RATE (CFM)	TOTAL LOAD (MBH)	SENSIBLE LOAD (MBH)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. WATER)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	NO. COILS	EACH COIL FIN WIDTH/ HEIGHT (IN)	MINIMUM WATER VELOCITY	MINIMUM NO. ROWS/ FINS PER INCH	NOTES
CC-1	ENERGY LABS	GU-1	COOLING	23000	564	564	83/60	54	1	113	48/63	40% Glyc	23	2	102/30	3.00	10/12	FUTURE PHASE
CC-2	ENERGY LABS	GU-2	COOLING	23000	564	564	83/60	54	1	113	48/63	40% Glyc	23	2	102/30	3.00	10/12	
CC-3	ENERGY LABS	AHU-1	COOLING	24000	580	580	83/60	54.34	1	116	48/63	40% Glyc	23	2	102/31.5	3.00	10/12	FUTURE PHASE

GAS FIRED FURNACE SCHEDULE

							ELECTRICAL	
ID	MANUFACTURER AND MODEL NUMBER	INPUT LOAD (MBH)	OUTPUT LOAD (MBH)	AIRFLOW RATE (CFM)	PRESSURE DROP (IN H20)	MAX UNIT AMPS	VOLT/PH	NOTES
F-1	WEATHER RITE / HE 1500	1,565	1,000	15000	0.75	10	120/1	1,2 FUTURE PHASE
F-2	WEATHER RITE / HE 1500	1,565	1,000	15000	0.75	10	120/1	1,2,3

1. CFM AT 65% OF TOTAL UNIT CFM
2. CAPACITIES AT JOB SITE ELEVATION

PUMP SCHEDULE

				FLUID			PUMP		ELECTRICAL				
ID	MANUFACTURER AND SERIES	MODEL	SERVICE	FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT OF)	EFFICIENCY (%)	TYPE	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	NOTES
P-1	ARMSTONG 4380	2X2X8	GU-1	113	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1, FUTURE PHASE
P-2	ARMSTONG 4380	2X2X8	GU-2	113	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1
P-3	ARMSTONG 4380	2X2X8	AHU-1	116	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1, FUTURE PHASE

1. POWER FROM AIR HANDLING UNIT

UNIT HEATER SCHEDULE

					AIR		FLUID			ELECTRICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USE TYPE	AIRFLOW RATE (CFM)	LOAD (BTU/H)	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	MOTOR SIZE (HP)	VOLT/PH/HZ	NOTES
UH-1	MODINE V/VN-247	Gymnasium	HW	HEATING	4800	188,700	8	200	Water	0.5	208/3/60 (1)	New Unit Heater To Replace Existing

1. Provide a 115/1/60 phase unit heater with an accessory transformer to convert to voltage shown.

FAN COIL SCHEDULE - FUTURE PHASE

			AIR	FAN		COIL	ELECTRICAL	OTHER	
ID	LOCATION	TYPE	MAXIMUM AIRFLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (IN. WATER)	MOTOR SIZE (HP)	LOAD (BTU/H)	VOLT/PH/HZ	FLOW	NOTES
FC-1	Women's Locker	Heating Coil	4000	0.5	1	127,000	208/3/	24 GPM @ 5.8 CHW	1
FC-1	Men's Team Room	Heating Coil	4000	0.5	1	127,000	208/3/	24 GPM @ 5.8 CHW	1

1. DATA IS FROM ORIGINAL SCHEDULE. FIELD VERIFY ALL REPLACEMENT PARTS.

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SPE PROJECT #:	06-35
DRAWN BY:	Eljarez
CHECKED BY:	Rreeder
DESIGNED BY:	Jbrowning

SHEET TITLE:

SCHEDULES

SHEET NUMBER:

MP-7.1

Last Plotted:

SYMBOL LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
A5 / E–501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E–501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 / E–201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E–201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 / E–201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E–201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
CU–1	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
MATCH LINE / SEE XX/X–XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE.
WIRING METHODS	
	WIRING.
A–1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
1 A–1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
— X —	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION CCTV = CLOSED CIRCUIT TELEVISION FA = FIRE ALARM FO = FIBER OPTICS I = INTERCOM NC = NURSE CALL P = POWER RC = RIGID CONDUIT S = SOUND T = TELEPHONE TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
— · — · —	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE–LINE DIAGRAM.
	JUNCTION BOX.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	DISCONNECT, FUSED (ONE–LINE DIAGRAM).
	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE–LINE DIAGRAM).
	OVERLOAD RELAY (ONE–LINE DIAGRAM).
	STARTER (ONE–LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE–LINE DIAGRAM).
	MOTOR.
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
DP#__	DISTRIBUTION PANEL OR SWITCHBOARD.
LP	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
75	TRANSFORMER: NUMBER INDICATES kVA.
FIRE ALARM	
FCP	FIRE ALARM CONTROL PANEL, SEMI–RECESSED.
CM	CONTROL MODULE.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
WIRING DEVICES	
WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5–20R.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE–PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE–WAY	kVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO–CONDUCTOR	kW	KILOWATT
2WAY	TWO–WAY	kWh	KILOWATT HOUR
3/C	THREE–CONDUCTOR	LED	LIGHT EMITTING DIODE
3PH	THREE–PHASE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE–WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LPS	LOW PRESSURE SODIUM
4PDT	FOUR–POLE DOUBLE THROW	LRA	LOCKED ROTOR AMPS
4PST	FOUR–POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR–WIRE	LV	LOW VOLTAGE
4WAY	FOUR–WAY	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERE INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
ALUM	ALUMINUM	MG	MOTOR GENERATOR
AMP	AMPERE	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
AP	ACCESS POINT (WIRELESS DATA)	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT PROTECTION
ASC	AMPS SHORT CIRCUIT	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BB XFMR	BUCK–BOOST TRANSFORMER	NFC	NATIONAL FIRE CODE
C	CEILING MOUNTED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OC	ON CENTER
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	OCP	OVER CURRENT PROTECTION
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CKT	CIRCUIT	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CM	CONSTRUCTION MANAGER	OFP	OBTAIN FROM PLANS
CND	CONDUIT	OH DR	OVERHEAD (COILING) DOOR
CO	CONVENIENCE OUTLET	OL	OVERLOAD
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PB	PUSHBUTTON
CP	CONTROL PANEL	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
CU	COPPER	PT	POTENTIAL TRANSFORMER
dBA	UNIT OF SOUND LEVEL	PTZ	PAN/TILT/ZOOM
DPDT	DOUBLE POLE DOUBLE THROW	QTY	QUANTITY
DS	DISCONNECT SWITCH	R	REMOVE
EA	EACH	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETALLIC CONDUIT
ENT	ELECTRICAL NONMETALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
EPO	EMERGENCY POWER OFF	RR	REMOVE AND RELOCATE
EQUIP	EQUIPMENT	SCA	SHORT CIRCUIT AMPS
EX	EXISTING	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
F	FURNITURE MOUNTED	SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE, DOUBLE THROW
FLA	FULL LOAD AMPS	SPEC	SPECIFICATION
FMC	FLEXIBLE METALCONDUIT	SPST	SINGLE POLE, SINGLE THROW
FOB	FREIGHT ON BOARD	S/S	START/STOP
FVNR	FULL VOLTAGE NON–REVERSING	ST	SINGLE THROW
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
G	GROUND	SWGR	SWITCHGEAR
GEN	GENERATOR	TL	TWIST LOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TELEPHONE POLE
GFP	GROUND FAULT PROTECTION	TP	TWISTED PAIR
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TV	TELEVISION
HOA	HAND–OFF–AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HP	HORSE POWER	TYP	TYPICAL
HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HZ	HERTZ	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VFC	VARIABLE FREQUENCY CONTROLLER
IN/IS	INSULATED/ISOLATED	W/	WITH
I/O	INPUT/OUTPUT	W/O	WITHOUT
IR	INFRARED	WP	WEATHERPROOF
J–BOX	JUNCTION BOX	XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

   2.A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

   2.B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

   2.C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

4. SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB–SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

EQUIPMENT SCHEDULE

MARK	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE (CC–INDICATES CONDUCTOR AND CONDUIT SCHEDULE)	OVERCURRENT PROTECTION								NOTES	MARK
										DISCONNECT SWITCH					CIRCUIT BREAKER				
		HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	SWITCH TYPE	NEMA RATING	FUSED SWITCH	FUSE RATING	FUSE CLASS	CB	PANEL	RATING	
AHU–1	AIR HANDLER (FUTURE NIC)			61.3	52.8	480	3	60	CC#17	E	100/3	3R	YES	70A		80/3		HACR	1	AHU–1
GU–1	GYM AIR HANDLER (FUTURE)			40.6	33.8	480	3	60	CC#11	E	60/3	3R	YES	45A		50/3		HACR	1	GU–1
GU–2	GYM AIR HANDLER			40.6	33.8	480	3	60	CC#11	E	60/3	3R	YES	45A		50/3		HACR	1	GU–2
UH–1	UNIT HEATER (4 TOTAL)	1/2				208	3	60	EXISTING	E	EXISTING					EXIST		HACR	1,2	UH–1

NOTES:
1. LOCATE DISCONNECT ADJACENT TO UNIT.
2. RECONNECTION OF NEW UNIT TO BE PROVIDED UNDER ADD ALTERNATE #2. EXISTING DISCONNECT,CONDUIT AND CONDUCTORS TO BE REUSED.

EQUIPMENT SCHEDULE KEY

E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

ELECTRICAL SHEET INDEX

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REVISIONS:

NO	DATE	DESCRIPTION

ISSUED:

NO	DATE	DESCRIPTION
01	5/21/07	CONSTRUCTION DOCUMENTS
02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

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SPE PROJECT #:	06-35
DRAWN BY:	PSS
CHECKED BY:	DLA
DESIGNED BY:	DLA

SHEET TITLE:

SYMBOL LEGEND, SHEET INDEX & SCHEDULES

SHEET NUMBER:

EE–001

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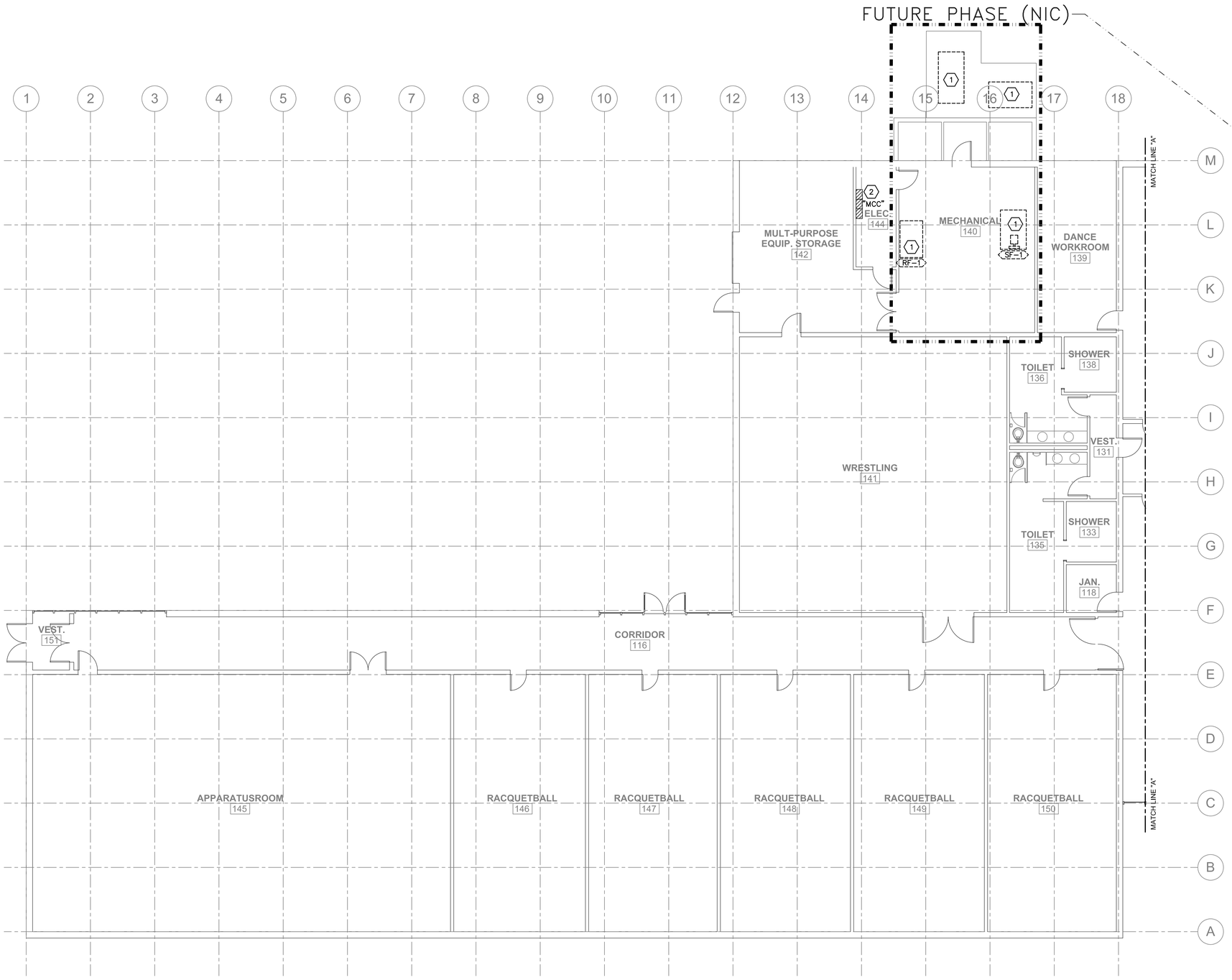


A1 LEVEL #1 AREA #1 DEMOLITION PLAN

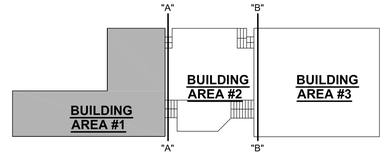
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

1. PROVIDE GROUNDING CONDUCTORS PER NEC FOR CIRCUITS AFFECTED BY THIS WORK.
2. RELOCATE AND/OR REROUTE EXISTING CONDUIT, WIRING OR OTHER EQUIPMENT THAT CONFLICTS WITH DEMOLITION OR NEW CONSTRUCTION.
3. REMOVE ALL CONDUIT, WIRING AND CABLING THAT IS ABANDONED OR WILL BECOME ABANDONED AS A RESULT OF THIS PROJECT.
4. WHERE DEVICES, LIGHT FIXTURES OR OTHER EQUIPMENT ARE BEING REMOVED, REMOVE ASSOCIATED CONDUIT AND WIRING TO PANEL BOARD OR FIRST ACTIVE JUNCTION BOX.

SHEET KEYNOTES

1. REMOVE CONNECTION TO EXISTING EQUIPMENT ALONG WITH CONDUIT AND WIRING BACK TO MOTOR CONTROL CENTER "MCC". REMOVE EXISTING STARTER/DISCONNECT IN "MCC" AND REPLACE WITH NEW BREAKER. SEE ONE-LINE DIAGRAM.
2. REMOVE EXISTING COMBINATION STARTER DISCONNECTS THAT FED THE GYM EVAPORATIVE COOLERS AS REQUIRED TO ACCOMMODATE THE NEW CIRCUIT BREAKERS FOR THE GYM UNITS GU-1 AND GU-2. FIELD VERIFY REQUIREMENTS.



A5 KEYPLAN

NTS

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REVISIONS:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
01	5/21/07	CONSTRUCTION DOCUMENTS
02	08/15/07	CONSTRUCTION DOCUMENTS - REBID

DFCM PROJECT #:	06162610
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DRAWN BY:	PSS
CHECKED BY:	DLA
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SHEET TITLE:

LEVEL #1 AREA #1 DEMOLITION PLAN

SHEET NUMBER:

ED-101

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Last Plotted: 8/13/2007 10:24:29 AM

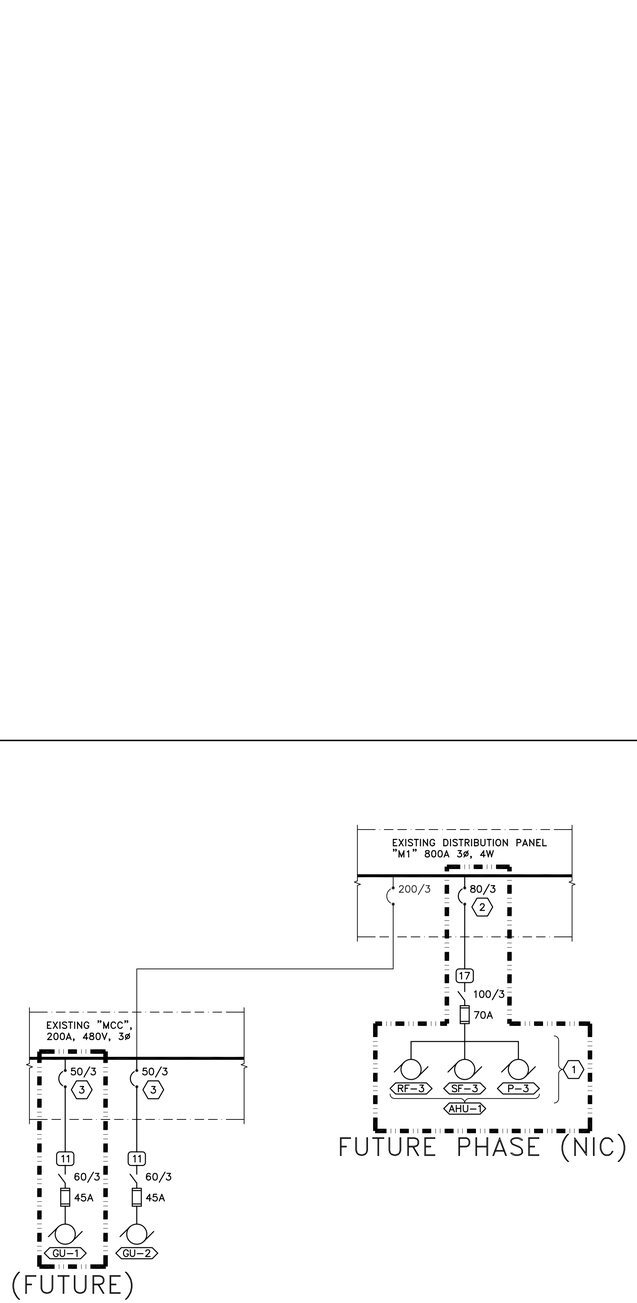
CONDUCTOR AND CONDUIT SCHEDULE

(**) SCHEDULE NUMBER
SUBSCRIPT (NOTE 5)
(E.G.) (5)IG

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1) QTY	SIZE	G	IG	SE	NOTES
1	20	.75	2	12	12	12	8	2
2	20	.75	3	12	12	12	8	2,3
3	20	.75	4	12	12	12	8	2,3
4	30	.75	2	10	10	10	8	2
5	30	.75	3	10	10	10	8	2
6	30	.75	4	10	10	10	8	2
7	40	1	2	8	10	8	6	2
8	40	1	3	8	10	8	6	2
9	40	1	4	8	10	8	6	2
10	55	1	2	6	10	8	4	2
11	55	1	3	6	10	8	4	2
12	55	1.25	4	6	10	8	4	2
13	70	1	2	4	8	4	2	2
14	70	1.25	3	4	8	4	2	2
15	70	1.25	4	4	8	4	2	2
16	85	1.25	2	3	8	3	2	2
17	85	1.25	3	3	8	3	2	2
18	85	1.25	4	3	8	3	2	2
19	95	1.25	3	2	8	2	2	2
20	95	1.50	4	2	8	2	2	2
21	130	1.50	3	1	6	2	2	2
22	130	1.50	4	1	6	2	2	2
23	150	2	3	1/0	6	2	1/0	2
24	150	2	4	1/0	6	2	1/0	2
25	175	2	3	2/0	6	2	2/0	2
26	175	2	4	2/0	6	2	2/0	2
27	200	2	3	3/0	6	2	2/0	2
28	200	2.50	4	3/0	6	2	2/0	2
29	230	2.50	3	4/0	4	2	2/0	2
30	230	2.50	4	4/0	4	2	2/0	2
31	255	2.50	3	250	4	1	2/0	2
32	255	2.50	4	250	4	1	2/0	2
33	310	3	3	350	3	1/0	3/0	2
34	310	3	4	350	3	1/0	3/0	2
35	380	3.50	3	500	3	3/0	3/0	2
36	380	4	4	500	3	3/0	3/0	2
37	400	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	2 EA 3	4	250	1	4/0	3/0	2
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0	4
54	2010	6 EA 3.50	4	400	250	250	250	4
55	2660	7 EA 4	4	500	350	350	350	4
56	3040	8 EA 4	4	500	500	500	500	4
57	4180	11 EA 4	4	500	500	500	500	4
58		5 EA 4						6
59		5						6
60		10 EA 4						6

CONDUCTOR AND CONDUIT SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250–122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.



A1 NEW PARTIAL ONE–LINE DIAGRAM
NO SCALE

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO SPECIFICATIONS SECTION 16071 FOR REQUIREMENTS.

⬡SHEET KEYNOTES

1. ALL INTERNAL WIRING OF PACKAGED UNIT TO INDIVIDUAL MOTORS BY EQUIPMENT MANUFACTURER. PROVIDE SINGLE POINT CONNECTION TO AIR HANDLER AHU–1.
2. PROVIDE NEW 80A/3P BREAKER IN EXISTING MAIN PANEL "M1". FIELD VERIFY PANEL TYPE AND PROVIDE BREAKER TO MATCH.
3. PROVIDE NEW 50A/3P BREAKER IN EXISTING "MCC". COORDINATE REQUIREMENTS WITH "MCC" MANUFACTURER. FIELD VERIFY.

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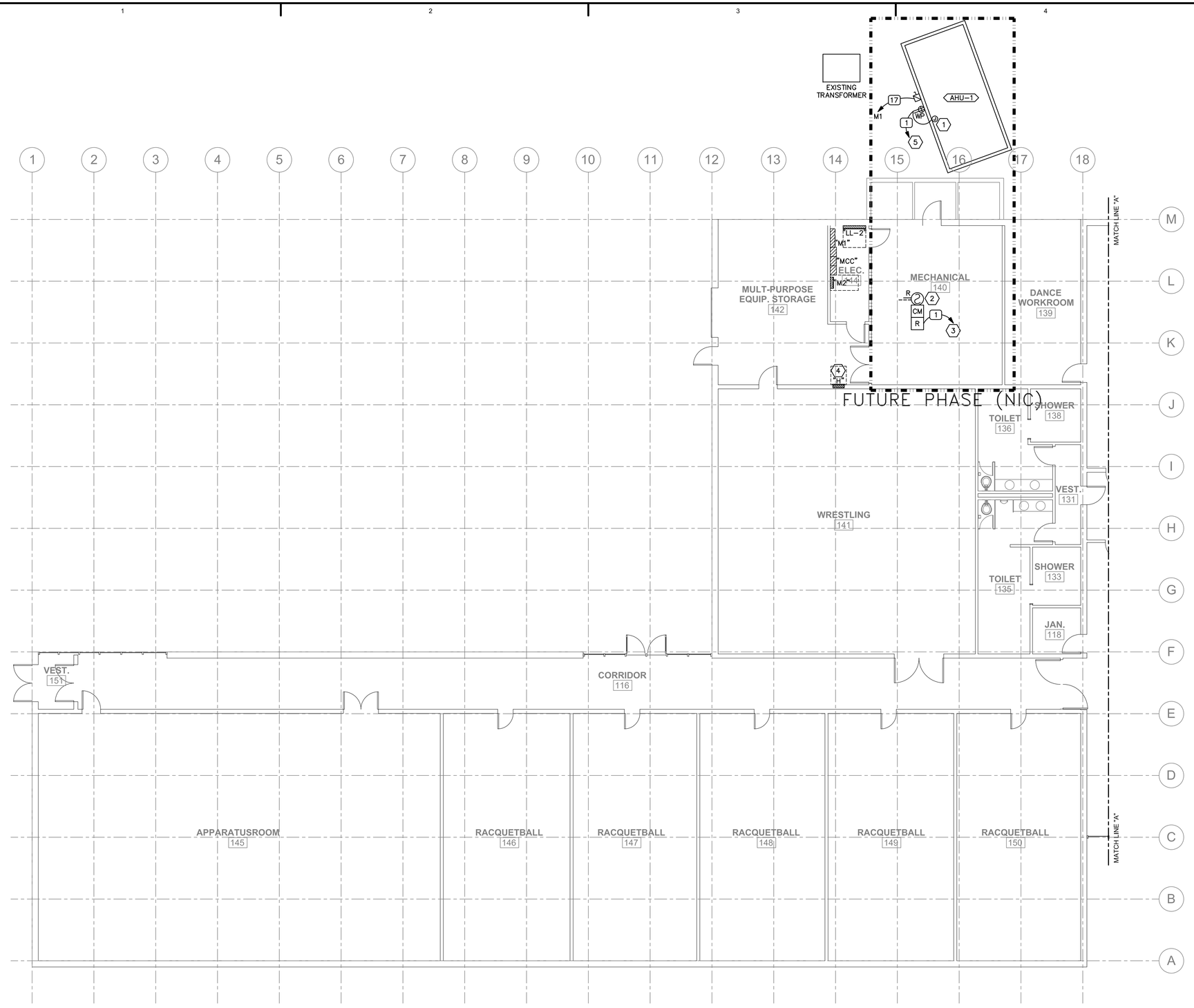
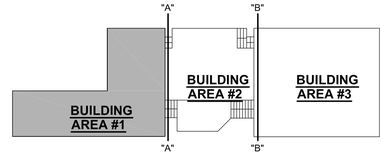


A1 LEVEL #1 AREA #1 POWER PLAN

SCALE: 1/8"=1'-0"

SHEET KEYNOTES

1. PROVIDE CONNECTION TO INTERNAL LIGHTS. VERIFY REQUIREMENT WITH MECHANICAL EQUIPMENT INSTALLER.
2. PROVIDE NEW DUCT SMOKE DETECTOR IN AHU-1 RETURN AIR DUCT. TIE INTO EXISTING FIRE ALARM PANEL INITIATING LOOP AS REQUIRED. FIELD VERIFY EXISTING FIRE ALARM SYSTEM AND PROVIDE DEVICE TO MATCH. EXISTING FIRE ALARM CONTROL PANEL MANUFACTURER IS GAMEWELL.
3. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER.
4. PROVIDE 1-EACH NEW 20A/1P BREAKER IN EXISTING PANEL "H". FIELD VERIFY PANEL TYPE AND MATCH BREAKER TO PANEL.
5. CONNECT TO NEW BREAKER IN EXISTING PANEL "H".



A5 KEYPLAN

NTS

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LEVEL #1 AREA #1 POWER PLAN

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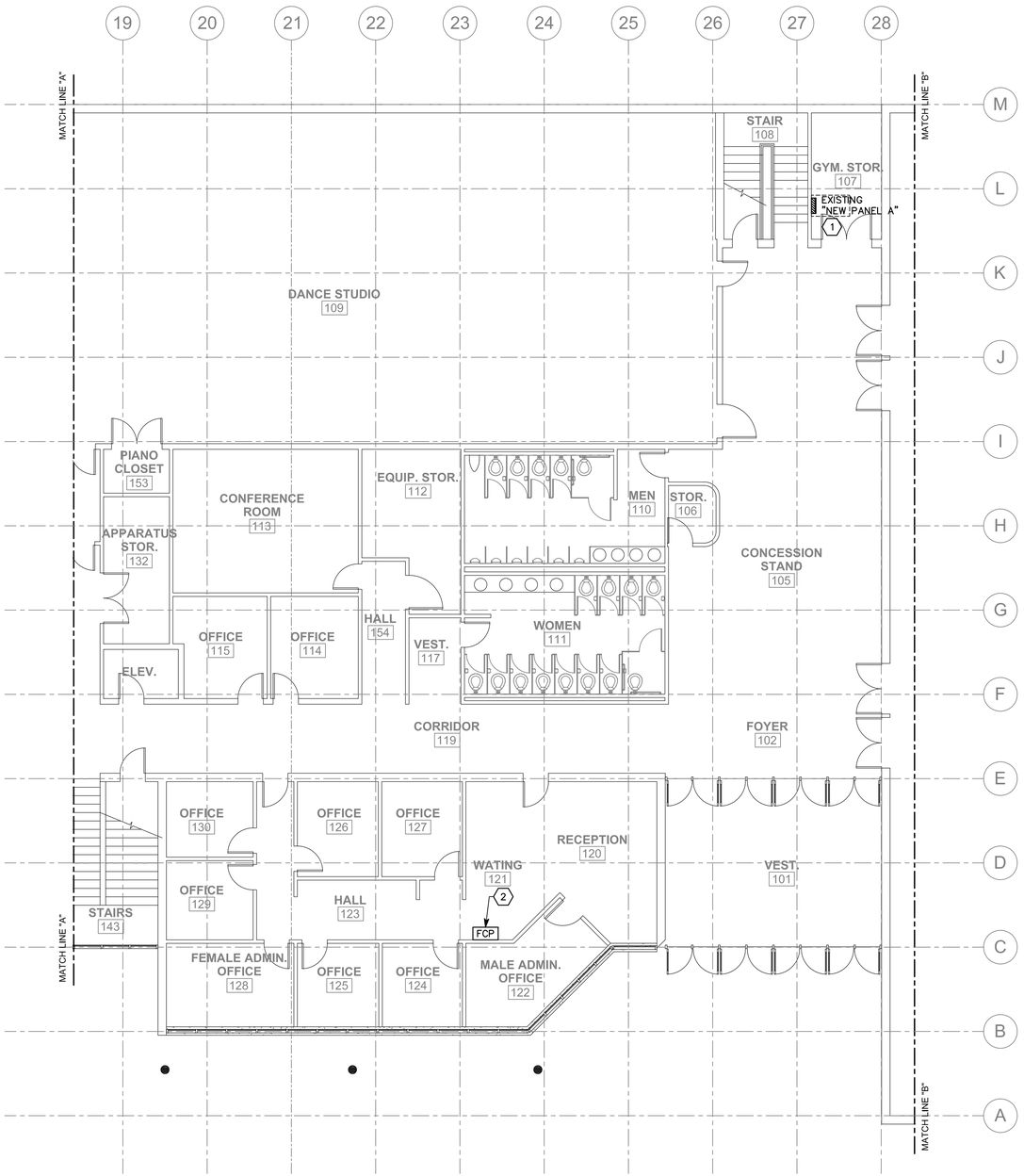
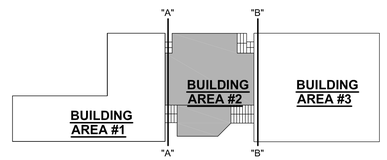


A1 LEVEL #1 AREA #2 POWER PLAN

SCALE: 1/8"=1'-0"

SHEET KEYNOTES

1. PROVIDE 3-EACH NEW 20A/1P BREAKERS IN EXISTING "NEW PANEL A". FIELD VERIFY PANEL TYPE AND PROVIDE MATCHING BREAKERS.
2. EXISTING GAMEWELL FIRE ALARM CONTROL PANEL.



A5 KEYPLAN

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LEVEL #1 AREA #2 POWER PLAN

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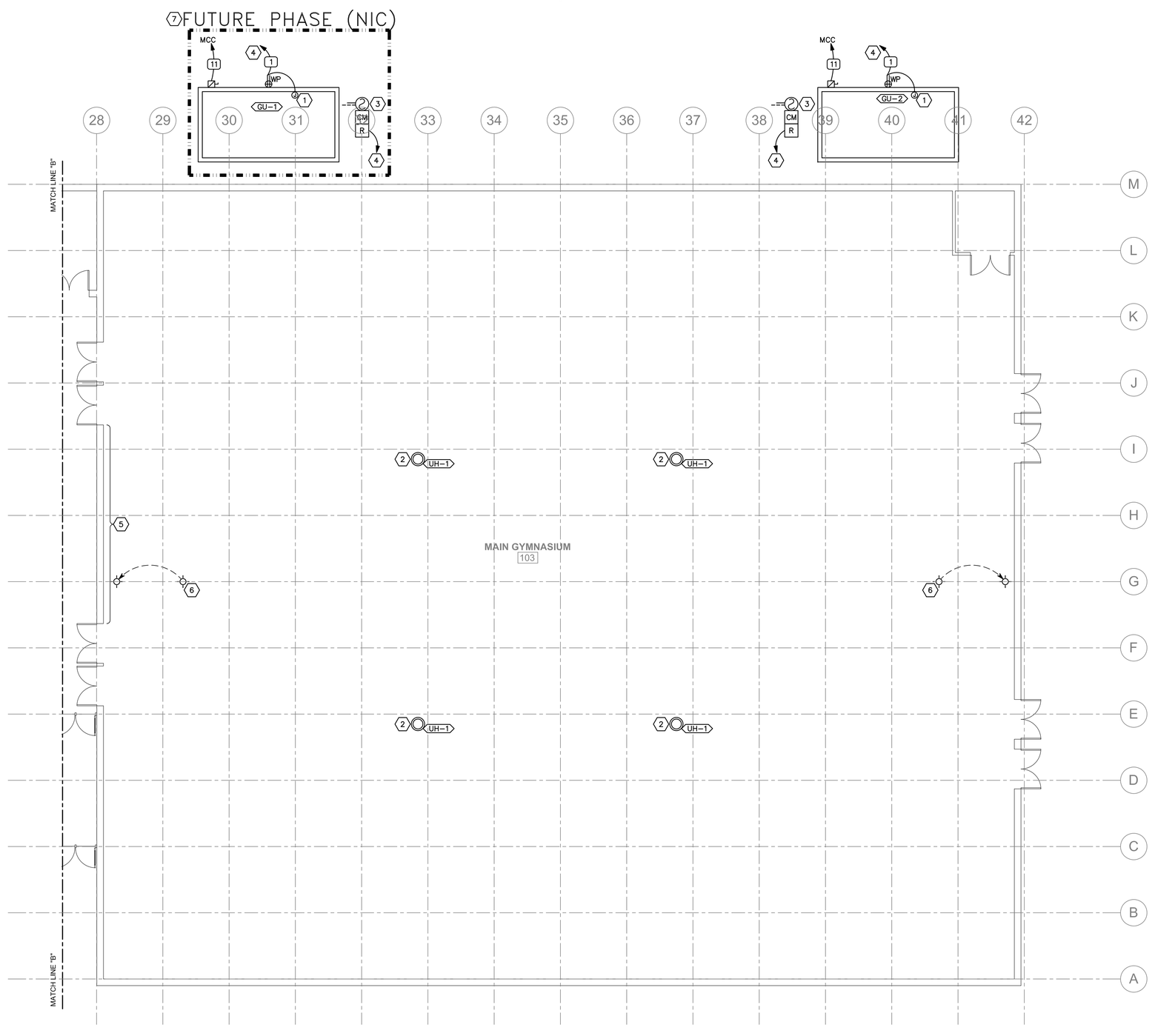


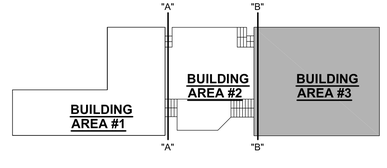
A1 LEVEL #1 AREA #3 POWER PLAN
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

1. COORDINATE ROUTING OF CONDUITS IN THE BUILDING WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1. PROVIDE CONNECTION TO 120-VOLT LIGHT FIXTURES INTEGRAL TO UNIT. VERIFY REQUIREMENTS WITH EQUIPMENT.
2. ADD ALTERNATE #1: RECONNECT NEW UNIT HEATER UH-1 TO EXISTING CIRCUIT. VERIFY OVERCURRENT PROTECTION AND PROVIDE NEW OVERCURRENT DEVICES BASED ON NAMEPLATE DATA OF NEW UNIT HEATER.
3. PROVIDE NEW DUCT SMOKE DETECTOR IN GYM UNIT AIR HANDLER RETURN AIR DUCT. TIE INTO EXISTING FIRE ALARM PANEL INITIATING LOOP AS REQUIRED. FIELD VERIFY EXISTING FIRE ALARM SYSTEM AND PROVIDE DEVICE TO MATCH. EXISTING FIRE ALARM CONTROL PANEL MANUFACTURER IS GAMEWELL.
4. CONNECT TO NEW 20A/1P BREAKER IN EXISTING "NEW PANEL A".
5. UTILIZE EXISTING CONDUITS THAT FED THE EVAPORATIVE COOLERS FOR RACEWAY BACK TO THE "MCC" IN ORDER TO FEED THE GYM UNIT AIR HANDLERS GU-1 & GU-2. FIELD VERIFY EXACT LOCATION OF CONDUITS AND REQUIREMENTS TO INTERCEPT THEM.
6. RELOCATE EXISTING HIGH BAY LIGHT FIXTURE TO ACCOMMODATE NEW MECHANICAL DUCT WORK. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. COORDINATE WITH DUCTWORK INSTALLER.
7. PROVIDE CONDUITS WITH PULL STRINGS REQUIRED FOR FUTURE INSTALLATION OF ALL EQUIPMENT. STUB CONDUITS, CAP AND LABEL WITH THE INTENDED FUTURE USE OF THE CONDUITS.



A5 KEYPLAN
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